

# Punjab School Education Board



Syllabus -XI  
Session 2019-20

## **SCHEME OF STUDIES FOR CLASS XI (SENIOR SECONDARY)**

### **COMPULSORY SUBJECTS**

1. General English
2. General Punjabi

Or

Punjab History and Culture

3. Environmental Education
4. Computer Science

### **ELECTIVE SUBJECTS**

In addition to the compulsory subjects every candidate shall offer any one of the following groups:

Group I	Humanities
Group II	Science
Group III	Commerce
Group IV	Agriculture

#### **(I) HUMANITIES GROUP**

Every candidate shall offer any three elective subjects 5,6 and 7 from the following:

(i) Language (anyone)

- a. Punjabi (Elective)
- b. Hindi (Elective)
- c. English(Elective)
- d. Urdu

(ii) Classical/Foreign Language (anyone)

- (i) Sanskrit
- (ii) French
- (iii) German

- iii. History
- iv. Economics
- v. Mathematics
- vi. Business Organisation and Management
- vii. Book –Keeping and Accountancy
- viii. Political Science
- ix. Sociology
- x. Public Administration
- xi. Philosophy
- xii. Religion
- xiii. Music(Vocal)
- xiv. Gurmat Sangeet
- xv. Music (Instrumental)
- xvi. Music Dance ( Tabla)
- xvii. Music Dance
- xviii. Philosophy
- xix. Geography
- xx. Defence Studies
- xxi. Psychology
- xxii. Home Science
- xxiii. Modeling and Sculpture
- xxiv. Commercial Art

- xxv. Drawing and Painting
- xxvi. Physical Education and Sport
- xxvii. Media Studies

## **(II) SCIENCE GROUP**

Every candidate shall offer following three subjects.

- 5. Physics
- 6. Chemistry
- 7. Biology

Or

Mathematics

A candidate can offer an additional subject out of the following:

- (i) Geography
- (ii) Home Science
- (iii) Agriculture
- (iv) Biology

or

Mathematics

(v) Computer Application

(vi) Economics

## **(III) COMMERCE GROUP**

Every candidate shall offer following four subjects.

- 5. Business Studies-I
- 6. Accountancy I
- 7. Business Economics & Quantitative Methods-I
- 8. Modern Office Practices

**A candidate can also offer an additional subject out of the following:**

**(a) Computer Application**

**(b) Mathematics**

## **(IV) AGRICULTURE GROUP**

Every candidate shall offer any three subjects from the following:

**5. Agriculture (Compulsory)**

Every candidate shall offer any two subjects (6 and 7) from the following:

- (i) Physics
- (ii) Chemistry
- (iii) Economics
- (iv) Rural Development & Environment
- (v) Geography

**A candidate can offer an additional subject out of the following:**

(a) Mathematics

(b) Computer Application

**Note:-** The Syllabi in the subjects of Physics, Chemistry and Computer Application will be same as prescribed in the Science Group and that of Geography, Mathematics and Economics will be the same as in the Humanities Group.

**(A) SCHEME OF STUDIES  
(ACADEMIC STREAM)  
FOR  
Senior Secondary (11<sup>th</sup> Class) Examination**

(a) Compulsory Subjects: Every candidate shall offer the following subjects:

Sr. No.	Subject	Th		Prac		CCE	Total Marks	Min Pass Marks
		Max/Min		Max/Min				
1.	General English	65	22			10	75	25
2.	General Punjabi Or Punjab History and Culture	65	22			10	75	25
3.	Environmental Education	45	15			05	50	
4.	Computer Science	50	17	40	13	10	100	

**\*Important Note:** It is mandatory to get minimum 33% marks in theory and practical separately. No minimum marks are required in CCE but it is mandatory to get 33% marks in theory, practical and CCE in aggregate.

- Note:** 1. A candidate who has passed the Matriculation examination from a Board other than the Punjab School Education Board can have Punjab History and Culture in lieu of the Compulsory Punjabi Subject in the 11<sup>th</sup> class. Such students will furnish proof of not having studied Punjabi at the Matric level.
2. A candidate who has passed Matriculation examination from the Punjab School Education Board with 'Punjab History and Culture' as a subject can opt for Punjab History and Culture in lieu of compulsory Punjabi in the 11<sup>th</sup> class.

(b) Elective Subjects:

In addition to the compulsory subjects every candidate shall offer any of the following groups:

- Group I Humanities
- Group II Science
- Group III Commerce
- Group IV Agriculture

(c) Additional Subjects:

In addition to three elective subjects offered by a candidate out of the group (only in case of Humanities, Science and Agriculture groups) a student may offer one additional subject from the same group.

**HUMANITIES GROUP**

Every candidate shall offer any three elective subjects from the following:

Sr. No.	Subject	Th		Prac		CCE	Total Marks	Min Pass Marks
		Max/Min		Max/Min				
1.	Language (anyone)							
i.	Punjabi (Elective)	90	30			10	100	33
ii.	Hindi (Elective)	90	30			10	100	33
iii.	English(Elective)	90	30			10	100	33
iv.	Urdu	90	30			10	100	33

2.	Classical/Foreign Language (anyone)							
i.	Sanskrit Or	90	30			10	100	33
ii	French	70	23	20	07	10	100	33
iii.	German	70	23	20	07	10	100	33
3.	History	90	30			10	100	33
4.	Economics	90	30			10	100	33
5.	Mathematics	90	30			10	100	33
6.	Business Organisation & Management	90	30			10	100	33
7.	Book Keeping and Accountancy	90	30			10	100	33
8.	Political Science	90	30			10	100	33
9.	Sociology	90	30			10	100	33
10.	Public Administration	90	30			10	100	33
11.	Philosophy	90	30			10	100	33
13.	Religion	90	30			10	100	33
14.	Geography	70	23	20	07	10	100	33
15.	Defense Studies	70	23	20	07	10	100	33
16.	Psychology	70	23	20	07	10	100	33
17.	History and Appreciation of Art	90	30			10	100	33
18	Computer Application	60	20	30	10	10	100	33
19.	Agriculture	70	23	20	07	10	100	33
20.	Home Science	60	20	30	10	10	100	33
21.	Music (Vocal)	60	20	30	10	10	100	33
22.	Gurmat Sangeet	60	20	30	10	10	100	33
23.	Music (Instrumental)	60	20	30	10	10	100	33
24.	Music (Tabla)	60	20	30	10	10	100	33
25.	Music (Dance)	60	20	30	10	10	100	33
26.	Physical Education & Sports	50	17	40	13	10	100	33
27.	Drawing & Painting			90	30	10	100	33
28.	Commercial Art			90	30	10	100	33
29.	Modeling and Sculpture			90	30	10	100	33
30.	Media Studies	70	23	20	07	10	100	33
31.	Any one Trade from the following NSQF Trades I.Private Security II.Exciting world of Automobile III.Beauty and Wellness IV.Information Technology	30	10	50	17	CCE 10	HOT 10	100

V.Health care								
VI.Organized Retail								
VII.Travel and Tourism								
VIII.Agriculture								

**\*Important Note:** It is mandatory to get minimum 33% marks in theory and practical separately. No minimum marks are required in CCE but it is mandatory to get 33% marks in theory, practical and CCE in aggregate.

Note: (1) Candidates taking up Home Science as an elective subject may choose atleast one subject from Sociology, Psychology and Economics if they wish to seek admission to higher courses in Home Science.

(2) The syllabus of computer application will be same as prescribed in the Science Group.

(3) The syllabus of Agriculture will be same as prescribed in the Agriculture Group.

**Imp. Note :** If a candidate wants to appear in a language other than Punjabi, Hindi, English, Sanskrit, Urdu, and French, he/she shall have to take prior permission from Director Academics.

#### SCIENCE GROUP

Every candidate shall offer the following subjects:

Sr. No.	Subject	Th		Prac		CCE	Total Marks	Min Pass Marks
		Max/	Min	Max/	Min			
1.	Physics	70	23	20	07	10	100	33
2.	Chemistry	70	23	20	07	10	100	33
3.	Biology	70	23	20	07	10	100	33
	Or Mathematics	90	30			10	100	33
A candidate can offer an additional subject out of the following:								
II.	Geography	70	23	20	07	10	100	33
III.	Home Science	60	20	30	10	10	100	33
IV.	Agriculture	70	23	20	07	10	100	33
V.	Biology	70	23	20	07	10	100	33
	Or Mathematics	90	30			10	100	33
VI.	Computer Application	60	20	30	10	10	100	33
VIII	Economics	90	30			10	100	33

**\*Important Note:** It is mandatory to get minimum 33% marks in theory and practical separately. No minimum marks are required in CCE but it is

mandatory to get 33% marks in theory, practical and CCE in aggregate.

- Note: (i)** In addition to three elective subjects offered by a candidate from Science group, a candidate desiring higher studies in Ayurveda, may offer Sanskrit as an additional language. The syllabus of Sanskrit will be the same as prescribed in the Humanities Group.
- (ii)** The Syllabi in subjects of Economics, Geography, Home Science and Mathematics will be the same as prescribed in the Humanities Group.

#### COMMERCE GROUP

Sr. No.	Subject	Th		Prac		CCE	Total Marks	Min Pass Marks
		Max/Min		Max/Min				
1.	Business Studies-I	65	22			10	75	25
2.	Accountancy I	50	17	15	05	10	75	25
3.	Business Economics & Quantitative Methods-I	65	22			10	75	25
4.	Modern Office Practices	50	17	15	05	10	75	25

A candidate can also offer one additional subject out of the following:

- (a) Computer Application  
(b) Mathematics

**\*Important Note:** It is mandatory to get minimum 33% marks in theory and practical separately. No minimum marks are required in CCE but it is mandatory to get 33% marks in theory, practical and CCE in aggregate.

- Note: (i)** All the four Elective subjects i.e. Sr. No. 1 to 4 are compulsory.
- (ii)** The syllabus of Computer Application will be the same as prescribed in Science and Humanities Group.
- (iii)** The syllabus of Mathematics will be the same as prescribed in Humanities Group.

#### AGRICULTURE GROUP

Sr. No	Subject	Th		Prac		CCE	Total Marks	Min Pass Marks
		Max/ Min		Max/ Min				
1.	Agriculture	70	23	20	07	10	100	33
2. & 3. Any two of the following:								
(i)	Physics	70	23	20	07	10	100	33
(ii)	Chemistry	70	23	20	07	10	100	33
(iii)	Economics	90	30			10	100	33
(v)	Geography	70	23	20	07	10	100	33
A candidate can offer one additional subject out of the following:								
(a)	Mathematics	90	30			10	100	33
(b)	Computer Application	60	20	30	10	10	100	33

**\*Important Note:** It is mandatory to get minimum 33% marks in theory and practical separately. No minimum marks are required in CCE but it is mandatory to get 33% marks in theory, practical and CCE in aggregate.

Note:- The Syllabi in the subjects of Physics, Chemistry and Computer Application will be same as prescribed in the Science Group and that of Geography, Mathematics and Economics will be the same as in the Humanities Group.

Abbreviations :

Th	-	Theory
Pr	-	Practical
CCE	-	Continuous Comprehensive Evaluation.



## CONTENTS

<b>S.No</b>	<b>Subject Name</b>
1.	General English
2.	General Punjabi
3.	Punjab History and Culture
4.	Environmental Education
5.	Computer Science
6.	Punjabi (Elective)
7.	Hindi (Elective)
8.	English (Elective)
9.	Sanskrit
10.	History
11.	Economics
12.	Mathematics
13.	Business Organisation and Management
14.	Book –Keeping and Accountancy
15.	Political Science
16.	Sociology
17.	Public Administration
18.	Religion
19.	Music(Vocal)
20.	Gurmat Sangeet
21.	Music (Instrumental)
22.	Music (Tabla)
23.	Music Dance
24.	Philosophy
25.	Geography
26.	Defence Studies
27.	Psychology
28.	Home Science
29.	Modeling and Sculpture
30.	Commercial Art
31.	Drawing and Painting
32.	Physical Education and Sport
33.	Media Studies
34.	Physics
35.	Chemistry

36.	Biology
37.	Computer Application
38.	Business Studies I
39.	Accountancy-I
40.	Business Economics and Quantitative Methods –I
41.	Modern Office Practices
42.	Agriculture

**CLASS - XI**

**1. GENERAL ENGLISH**

**Time: 3 Hrs**

**Theory: 65 Marks**

**CCE: 10 Marks**

**Total: 75 Marks**

**SYLLABUS AND THE STRUCTURE OF QUESTION PAPER**

**Part-I (Objective type question) 8 marks**

1. It will consist of 8 objective type questions carrying one mark each. Objective type questions may include questions with one word to one sentence answer **or** fill in the blank **or** true/false **or** multiple choice type questions.

a Lessons meant for intensive study 3×1=3

b Lessons meant for extensive study 3×1=3

c Grammar 2×1=2

**Part-II (Reading) 10 marks**

2. Unseen passage for Comprehension. (passage of 150-200 words) followed by two M.C.Q, 2 single line comprehension questions, one question on fill in the blank (two), one question on match the words(two). 1+1+1+1+1+1 = 6 marks

3. Comprehension questions from poetry on a given stanza (4 questions including a question on name of the poet / poem , Rhyme / Simile / Metaphor / Personification /Alliteration/ Imagery etc on selected stanza).(1 out of two given stanzas to be attempted) 4 marks

**Part-III (Writing) 10 marks**

4. Note making/Message writing/Notice writing/Advertisement writing (to attempt 1 out of the given 2) 4 marks
5. Letter writing (only social and personal) (with internal choice) 6 marks

**Part-IV (Grammar and Translation) 12 marks**

6 *Grammar items can be from anywhere.*

(A) (i) Translation from English to Punjabi/Hindi 2 marks

(ii) Translation from Punjabi/Hindi to English 2 marks

(B) Do as directed. 8 marks

a. Prepositions

b. Determiners

c. Modals

d. Use of the same words as verb, noun and adjectives

e. Removal and use of too

f. Tenses

g. Voice

h. Narration

**Part-V (Literature)****25 marks**

7. Central idea (1 out of 2.) 3 marks
8. Three (out of four) short answer questions of about 40 to 50 words from intensive study.  $3 \times 2 = 6$
9. Two (out of three) short answer questions of about 40 to 50 words from extensive study.  $2 \times 2 = 4$
10. Long answer question (100 to 120) words on theme, incident, content, character etc. from intensive study (with internal choice). 6 marks
11. Long answer type (100-120 words) question from extensive study on Character/incident/theme etc.(with internal choice). 6 marks

**SYLLABUS****SECTION A****LESSONS FOR INTENSIVE STUDY**

1. Gender Bias
2. The Portrait of a Lady
3. Of Studies
4. Liberty and Discipline
5. A President Speaks
6. The Earth is not Ours
7. Let's Not Forget the Martyrs
8. Water- A True Elixir
9. The First Atom Bomb
10. No Time for Fear

**SECTION B****POETRY**

1. Lines Written in Early Spring
2. Mother's Day
3. Television
4. Upagupta
5. Confessions of A Born Spectator
6. The Little Black Boy
7. A Thing of Beauty is a Joy For Ever

**SECTION C****LESSONS FOR EXTENSIVE STUDY**

1. An Astrologer's Day
2. The Tiger in the Tunnel
3. Sparrows
4. The Model Millionaire
5. The Panch Parmeshwar
6. The Peasant's Bread

## **SECTION D**

### **GRAMMAR**

- a. Preposition
- b. Determiners
- c. Use of the same word as noun, verb and adjective
- d. Modals
- e. Tenses
- f. Removal and use of too
- g. Voice
- h. Narration

### **Composition**

- a. Note Making
- b. Message Writing
- c. Notice Writing
- d. Advertisement Writing
- e. Letter Writing (only social and personal)

**Translation from English to Hindi/Punjabi and Translation from Hindi/ Punjabi to English.**

**(From Chapter 18 The Art of Translation given in the book English Grammar And Composition for XI and XII)**

## 18

THE ART OF  
TRANSLATIONLearning  
Objectives

After the completion of this chapter, the learner will be able to :

- \* use English language as a means of communication in bilingual method.
- \* learn correct structural formation of sentences in English .

## A . Affirmative Sentences

1. ਉਹ ਮੇਰਾ ਮਿੱਤਰ ਹੈ। वह मेरा दोस्त है। He is my friend.
2. ਮੈਂ ਇੱਕ ਖਿਡਾਰੀ ਹਾਂ। मैं एक खिलाड़ी हूँ। I am a player.
3. ਤੁਸੀਂ ਠੀਕ ਹੋ। आप ठीक हो। You are right.
4. ਉਹ ਚਲਾਕ ਸਨ। वे चालाक थे। They were clever.
5. ਅਮਿਤ ਮੇਰਾ ਵਿਦਿਆਰਥੀ ਸੀ। अमित मेरा विद्यार्थी था। Amit was my student.

## B. Negative Sentences

6. ਉਹ ਲੇਖਕ ਨਹੀਂ ਹੈ। वह लेखक नहीं है। He is not a writer.
7. ਸਾਨੂੰ ਜਲਦੀ ਨਹੀਂ ਹੈ। हमें जल्दी नहीं है। We are not in a hurry.
8. ਮੈਂ ਨੇਤਾ ਨਹੀਂ ਹਾਂ। मैं नेता नहीं हूँ। I am not a leader.
9. ਮੈਂ ਬੇਈਮਾਨ ਨਹੀਂ ਸੀ। मैं बेईमान नहीं था। I was not dishonest.
10. ਬੱਚੇ ਦੁਖੀ ਨਹੀਂ ਸਨ। बच्चे दुःखी नहीं थे। Children were not unhappy.

## C. Interrogative Sentences

11. ਕੀ ਉਹ ਤੁਹਾਡਾ ਮਿੱਤਰ ਹੈ? क्या वह आपका दोस्त है? Is he your friend?
12. ਕੀ ਸ਼ਮਾਂ ਕੰਜੂਸ ਹੈ? क्या शमां कंजूस है? Is Shama a miser?
13. ਕੀ ਮਨਜੀਤ ਇਮਾਨਦਾਰ ਹੈ? क्या मनजीत ईमानदार है? Is Manjit honest?
14. ਕੀ ਤੁਸੀਂ ਸਹੀ ਸੀ? क्या आप सही हो? Were you right?
15. ਕੀ ਲੜਕੇ ਖੁਸ਼ ਸਨ? क्या लड़के खुश थे? Were the boys happy?

## EXERCISE FOR PRACTICE

16. ਉਹ ਭੁੱਖਾ ਹੈ। वह भूखा है।

- |                                      |                                 |
|--------------------------------------|---------------------------------|
| 17. ਇਮਾਨਦਾਰੀ ਸਭ ਤੋਂ ਉੱਤਮ ਨੀਤੀ ਹੈ।    | ईमानदारी सबसे उत्तम नीति है।    |
| 18. ਮੈਂ ਕਵੀ ਹਾਂ।                     | मैं कवि हूँ।                    |
| 19. ਸਾਨੂੰ ਰੋਜ਼ ਸੈਰ ਕਰਨੀ ਚਾਹੀਦੀ ਹੈ।   | हमें रोज़ सैर करनी चाहिए।       |
| 20. ਉਹ ਭ੍ਰਿਸ਼ਟ ਨਹੀਂ ਸਨ।              | वे भ्रष्ट नहीं थे।              |
| 21. ਇਹ ਮਕਾਨ ਵਿਕਾਊ ਨਹੀਂ ਹੈ।           | यह मकान बिकाऊ नहीं है।          |
| 22. ਰਾਜ ਕਿਸਾਨ ਨਹੀਂ ਸੀ।               | राज किसान नहीं था।              |
| 23. ਕੀ ਦਸ ਵੱਜੇ ਹਨ ?                  | क्या दस बजे हैं?                |
| 24. ਕੀ ਤੁਹਾਡੇ ਪਿਤਾ ਜੀ ਬਹੁਤ ਅਮੀਰ ਸਨ ? | क्या आपके पिता जी बहुत अमीर थे? |
| 25. ਕੀ ਇਹ ਆਮ-ਰਸਤਾ ਹੈ ?               | क्या यह आम रास्ता है?           |

### I. Present Indefinite Tense

#### A. Affirmative Sentences

26. ਵਿਦਿਆਰਥੀ ਹਰ ਰੋਜ਼ ਮੈਦਾਨ ਵਿਚ ਖੇਡਦੇ ਹਨ।  
The students play in the ground everyday.  
विद्यार्थी हर रोज़ मैदान में खेलते हैं।
27. ਮੈਂ ਆਪਣੇ ਮਾਤਾ-ਪਿਤਾ ਦਾ ਦਿਲੋਂ ਸਤਿਕਾਰ ਕਰਦਾ ਹਾਂ।  
I respect my parents from the core of my heart.  
मैं अपने माता-पिता का दिल से सम्मान करता हूँ।
28. ਸਤਜੋਤ ਡੀ.ਏ.ਵੀ. ਕਾਲਜ ਜਲੰਧਰ ਵਿਖੇ ਪੜ੍ਹਦਾ ਹੈ।  
Satjot studies in D.A.V. College, Jalandhar.  
सतजोत डी.ए.वी. कॉलेज जालन्धर में पढ़ता है।
29. ਪ੍ਰਿੰਸੀਪਲ ਅੱਧੀ ਛੁੱਟੀ ਦੇ ਸਮੇਂ ਸਕੂਲ ਦਾ ਚੱਕਰ ਲਗਾਉਂਦਾ ਹੈ।  
The Principal takes a round of the school in the recess.  
प्रिंसिपल आधी छुट्टी के समय स्कूल का चक्कर लगाता है।
30. ਅਸੀਂ ਸੜਕ ਦੇ ਨਿਯਮਾਂ ਦਾ ਪਾਲਣ ਕਰਦੇ ਹਾਂ।  
We obey the traffic rules.  
हम सड़क के नियम का पालन करते हैं।

#### B. Negative Sentences

31. ਸੀਤਾ ਆਪਣੇ ਭਰਾ ਨਾਲ ਬਾਜ਼ਾਰ ਨਹੀਂ ਜਾਂਦੀ ਹੈ।  
Sita does not go to the market with her brother.  
सीता अपने भाई के साथ बाज़ार नहीं जाती है।

290

English Grammar and Composition

32. ਤੁਸੀਂ ਮੈਨੂੰ ਪਸੰਦ ਨਹੀਂ ਕਰਦੇ ਹੋ।  
 तुम मुझे पसन्द नहीं करते हो।  
 You don't like me.
33. ਅੱਜ-ਕੱਲ੍ਹ ਵਿਦਿਆਰਥੀ ਪੜ੍ਹਾਈ ਤੋਂ ਜੀ ਨਹੀਂ ਚਰਾਉਂਦੇ ਹਨ।  
 आजकल विद्यार्थी पढ़ाई से जी नहीं चुराते हैं।  
 The students do not shirk studies these days.
34. ਉਹ ਮੇਰੇ ਵੱਲ ਬਿਲਕੁਲ ਧਿਆਨ ਨਹੀਂ ਦਿੰਦੀ ਹੈ।  
 वह मेरी ओर बिल्कुल ध्यान नहीं देती है।  
 She does not pay any attention to me.
35. ਉਹ ਆਟਾ ਗੁੰਨ੍ਹਣਾ ਨਹੀਂ ਜਾਣਦਾ ਹੈ।  
 वह आटा गूंथना नहीं जानता है।  
 He does not know how to knead flour.

### C. Interrogative Sentences

36. ਕੀ ਤੁਸੀਂ ਕਿਰਾਏ ਦੇ ਮਕਾਨ ਵਿੱਚ ਰਹਿੰਦੇ ਹੋ ?  
 क्या आप किराये के मकान में रहते हैं?  
 Do you live in a rented house?
37. ਕੀ ਅਧਿਆਪਕ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਜ਼ਾ ਦਿੰਦਾ ਹੈ ?  
 क्या अध्यापक विद्यार्थी को सज़ा देता है?  
 Does the teacher punish the students?
38. ਕੀ ਉਹ ਸਵੈਟਰ ਨਹੀਂ ਬੁਣਦੀ ਹੈ ?  
 क्या वह स्वेटर नहीं बुनती है?  
 Does she not knit sweater?
39. ਕੀ ਅਸੀਂ ਸ਼ਾਮ ਨੂੰ ਖੇਡਣ ਜਾਂਦੇ ਹਾਂ ?  
 क्या हम शाम को खेलने जाते हैं?  
 Do we go to play in the evening?
40. ਕੀ ਦਾਦਾ ਜੀ ਰੋਜ਼ ਮੰਦਿਰ ਜਾਂਦੇ ਹਨ ?  
 क्या दादा जी रोज़ मन्दिर जाते हैं?  
 Does grandfather go to temple everyday?





## II. Past Indefinite Tense

### A. Affirmative Sentences

41. ਮੈਂ ਪਰਸੋਂ ਨਵੀਂ ਕਾਰ ਖਰੀਦੀ।  
ਮੈਂ ਨੇ ਪਰਸੋਂ ਨਵੀਂ ਕਾਰ ਖਰੀਦੀ।  
I bought a new car the day before yesterday.
42. ਉਹ ਆਪਣਾ ਪਰਸ ਘਰ ਭੁੱਲ ਗਈ।  
ਵਹ ਅਪਨਾ ਪਰਸ ਘਰ ਭੁੱਲ ਗਈ।  
She forgot her purse at home.
43. ਤੁਸੀਂ ਮੇਰੇ ਦੋਸਤਾਂ ਸਾਹਮਣੇ ਮੈਨੂੰ ਅਪਮਾਨਤ ਕੀਤਾ।  
ਤੁਸਨੇ ਮੇਰੇ ਦੋਸਤਾਂ ਦੇ ਸਾਮਨੇ ਮੁੜੇ ਅਪਮਾਨਿਤ ਕੀਤਾ।  
You insulted me in the presence of my friends.
44. ਰਾਜੀਵ ਨੇ ਬਹੁਤ ਸੁੰਦਰ ਤਸਵੀਰ ਖਿੱਚੀ।  
ਰਾਜੀਵ ਨੇ ਬਹੁਤ ਸੁੰਦਰ ਤਸਵੀਰ ਖਿੱਚੀ।  
Rajiv clicked a beautiful photograph.
45. ਜਾਸੂਸ ਨੇ ਆਪਣੇ ਦੇਸ਼ ਨਾਲ ਗੱਦਾਰੀ ਕੀਤੀ।  
ਜਾਸੂਸ ਨੇ ਅਪਨੇ ਦੇਸ਼ ਦੇ ਸਾਥ ਗਦ੍ਦਾਰੀ ਕੀ।  
The spy betrayed his country.
46. ਉਸਨੇ ਮੈਨੂੰ ਰਸੀਦ ਫੜਾ ਦਿੱਤੀ।  
ਉਸਨੇ ਮੁੜੇ ਰਸੀਦ ਦੇ ਦੀ।  
She/He handed over the receipt to me.

### B. Negative Sentences

47. ਚੌਕੀਦਾਰ ਨੇ ਦਰਵਾਜ਼ੇ ਦੀ ਕੁੰਡੀ ਨਹੀਂ ਲਗਾਈ।  
ਚੌਕੀਦਾਰ ਨੇ ਦਰਵਾਜ਼ੇ ਦੀ ਕੁੰਡੀ ਨਹੀਂ ਲਗਾਈ।  
The watchman did not bolt the door.
48. ਅਧਿਆਪਕ ਨੇ ਟੈਸਟ ਨਹੀਂ ਲਿਆ।  
ਅਧਿਆਪਕ ਨੇ ਟੈਸਟ ਨਹੀਂ ਲਿਆ।  
The teacher did not give the test.
49. ਸਾਨੂੰ ਨਿੱਘਾ ਸਵਾਗਤ ਨਹੀਂ ਮਿਲਿਆ।  
ਹਮੇਂ ਗਰਮਜੋਸ਼ੀ ਦੇ ਸਵਾਗਤ ਨਹੀਂ ਮਿਲਾ।  
We did not receive a warm welcome.
50. ਉਹ ਅਦਰਕ ਛਿੱਲਣਾ ਨਹੀਂ ਜਾਣਦੀ ਸੀ।  
ਵਹ ਅਦਰਕ ਈਲਨਾ ਨਹੀਂ ਜਾਨਦੀ ਥੀ।  
She did not know how to peel ginger.

51. ਮਾਤਾ ਜੀ ਨੇ ਚਾਦਰ ਤਹਿ ਨਹੀਂ ਕੀਤੀ।

ਮਾਤਾ ਜੀ ਨੇ ਚਾਦਰ ਤਹ ਨਹੀਂ ਕੀ।

The mother did not fold the bed sheet.

### C. Interrogative Sentences

52. ਕੀ ਉਸਨੇ ਮੇਰਾ ਜ਼ਿਕਰ ਕੀਤਾ ?

ਕੀ ਉਸਨੇ ਮੇਰਾ ਜ਼ਿਕਰ ਕੀਤਾ ?

Did he talk about me?

53. ਕੀ ਤੁਸੀਂ ਕੱਲ੍ਹ ਉੱਥੇ ਗਏ ?

ਕੀ ਤੁਸੀਂ ਕੱਲ੍ਹ ਉੱਥੇ ਗਏ ?

Did you go there yesterday?

54. ਕੀ ਮੁੱਖ ਮੰਤਰੀ ਨੇ ਝੰਡਾ ਲਹਿਰਾਇਆ ?

ਕੀ ਮੁੱਖ ਮੰਤਰੀ ਨੇ ਝੰਡਾ ਲਹਿਰਾਇਆ ?

Did the Chief Minister hoist the flag?

55. ਕੀ ਤੁਸੀਂ ਉਸ ਤੋਂ ਜੁਰਮਾਨਾ ਨਹੀਂ ਲਿਆ ?

ਕੀ ਤੁਸੀਂ ਉਸ ਤੋਂ ਜੁਰਮਾਨਾ ਨਹੀਂ ਲਿਆ ?

Did you not collect fine from him?

56. ਕੀ ਖਾਨਸਾਮੇ ਨੇ ਖਾਣਾ ਪਰੋਸਿਆ ?

ਕੀ ਖਾਨਸਾਮੇ ਨੇ ਖਾਣਾ ਪਰੋਸਿਆ ?

Did the chef serve the food?

### III. Future Indefinite Tense

#### A. Affirmative Sentences

57. ਮਹਿਮਾਨ ਰੋਟੀ ਘਰ ਹੀ ਖਾਣਗੇ।

ਮਹਿਮਾਨ ਰੋਟੀ ਘਰ ਹੀ ਖਾਣਗੇ।

The guests will take food at home only.

58. ਉਹ ਮੰਗਲਵਾਰ ਤੱਕ ਕੰਮ ਖਤਮ ਕਰ ਲਵੇਗਾ।

ਉਹ ਮੰਗਲਵਾਰ ਤੱਕ ਕੰਮ ਖਤਮ ਕਰ ਲਵੇਗਾ।

He will complete the work by Tuesday.

59. ਮੇਰੇ ਪਿਤਾ ਜੀ ਮੇਰਾ ਕਰਜ਼ਾ ਚੁਕਾਉਣਗੇ।

ਮੇਰੇ ਪਿਤਾ ਜੀ ਮੇਰਾ ਕਰਜ਼ਾ ਚੁਕਾਉਣਗੇ।

My father will pay my debt.

60. ਉਹ ਜ਼ਰੂਰ ਤੁਹਾਨੂੰ ਧੋਖਾ ਦੇਵੇਗੀ।  
 वह अवश्य तुम्हें धोखा देगी।  
 She will definitely deceive you.
61. ਪਹਿਲਵਾਨ ਕੁਸ਼ਤੀ ਜਿੱਤ ਲਵੇਗਾ।  
 पहलवान कुश्ती जीत लेगा।  
 The wrestler will win the fight/bout.

#### B. Negative Sentences

62. ਮੈਂ ਤੁਹਾਨੂੰ ਨਿਰਾਸ਼ ਨਹੀਂ ਕਰਾਂਗਾ।  
 मैं आपको निराश नहीं करूँगा।  
 I will not disappoint you.
63. ਅਸੀਂ ਤੁਹਾਡੀ ਸ਼ਿਕਾਇਤ ਨਹੀਂ ਕਰਾਂਗੇ।  
 हम आपकी शिकायत नहीं करेंगे।  
 We won't complain against you.
64. ਕੰਮਵਾਲੀ ਬਰਤਨ ਸਾਫ਼ ਨਹੀਂ ਕਰੇਗੀ।  
 नौकरानी बर्तन साफ़ नहीं करेगी।  
 The maid will not wash the utensils.
65. ਅਸੀਂ ਆਪਣਾ ਚੋਗਿਰਦਾ ਸਾਫ਼ ਰੱਖਾਂਗੇ।  
 हम अपना आस-पास साफ़ रखेंगे।  
 We shall keep our surroundings clean.
66. ਵਿਦਿਆਰਥੀ ਆਪਣੀ ਜਮਾਤ ਵਿੱਚ ਗੰਦ ਨਹੀਂ ਪਾਉਣਗੇ।  
 विद्यार्थी अपनी कक्षा में कूड़ा-ककट नहीं डालेंगे।  
 The students will not litter the class.

#### C. Interrogative Sentences

67. ਕੀ ਤੁਸੀਂ ਕੱਲ੍ਹ ਇੰਟਰਵਿਊ ਵਿੱਚ ਹਾਜ਼ਰ ਹੋਵੋਗੇ ?  
 क्या आप कल साक्षात्कार में शामिल होंगे?  
 Will you appear in the interview tomorrow?
68. ਕੀ ਅਸੀਂ ਇਸ ਸਾਲ ਪਹਾੜਾਂ 'ਤੇ ਜਾਵਾਂਗੇ ?  
 क्या हम इस साल पहाड़ों पर जाएंगे?  
 Shall we go to mountains this year?

69. ਕੀ ਤੁਸੀਂ ਅੱਜ ਬਿੱਲ ਬਣਾ ਲਵੋਗੇ ?

क्या आप आज बिल बनवा लेंगे?

Will you prepare the bill today?

70. ਕੀ ਉਸਨੂੰ ਕਦੇ ਬੋਲਣ ਦਾ ਤਰੀਕਾ ਆਵੇਗਾ ?

क्या उसको कभी बोलने का तरीका आयेगा?

Will he ever learn how to speak?

71. ਕੀ ਉਹ ਸਾਡੇ ਲਈ ਚਾਹ ਬਣਾਵੇਗੀ ?

क्या वह हमारे लिए चाय बनायेगी?

Will she prepare tea for us?

#### IV. Present Continuous Tense

##### A. Affirmative Sentences

72. ਨੇਤਾ ਜੀ ਇੱਧਰ ਉੱਧਰ ਦੀਆਂ ਗੱਲਾਂ ਮਾਰ ਰਹੇ ਹਨ।

नेता जी इधर-उधर की बातें कर रहे हैं।

The leader is beating about the bush.

73. ਉਹ ਤੌਲੀਆ ਨਿਚੋੜ ਰਹੀ ਹੈ।

वह तौलिया निचोड़ रही है।

She is wringing out the towel.

74. ਰਮੇਸ਼ ਆਪਣੇ ਕੱਲ੍ਹ ਦੇ ਇਮਤਿਹਾਨ ਦੀ ਤਿਆਰੀ ਕਰ ਰਿਹਾ ਹੈ।

रमेश अपने कल होने वाली परीक्षा की तैयारी कर रहा है।

Ramesh is preparing for his next day's exam.

75. ਅਧਿਆਪਕ ਸਾਨੂੰ ਚੰਗੇ ਕੰਮ ਕਰਨ ਲਈ ਪ੍ਰੇਰਿਤ ਕਰ ਰਿਹਾ ਹੈ।

अध्यापक हमें अच्छे कार्य करने हेतु प्रेरित कर रहा है।

The teacher is motivating us to do good deeds.

76. ਪਿਤਾ ਜੀ ਕੱਪੜੇ ਇਸਤਰੀ ਕਰ ਰਹੇ ਹਨ।

पिता जी कपड़ों को इस्त्री कर रहे हैं।

The father is ironing the clothes.

##### B. Negative Sentences

77. ਉਹ ਮੇਰੀ ਗੱਲ ਨਹੀਂ ਸੁਣ ਰਹੀ ਹੈ।

वह मेरी बात नहीं सुन रही है।

She is not listening to me.

78. ਬੱਚੇ ਕਤਾਰ ਵਿੱਚ ਨਹੀਂ ਚੱਲ ਰਹੇ ਹਨ।

ਬੱਚੇ ਪੰਕਤਿ में नहीं चल रहे हैं।

Children are not walking in queue.

79. ਮੈਂ ਤੁਹਾਡੀ ਕਾਬਲੀਅਤ 'ਤੇ ਸ਼ੱਕ ਨਹੀਂ ਕਰ ਰਿਹਾ ਹਾਂ।

मैं आपकी योग्यता पर शक नहीं कर रहा हूँ।

I am not doubting your competence.

80. ਜੱਜ ਸਹੀ ਫੈਸਲਾ ਨਹੀਂ ਦੇ ਰਿਹਾ ਹੈ।

न्यायाधीश सही निर्णय नहीं कर रहा है।

The judge is not delivering the right verdict.

81. ਰਾਜਨੇਤਾ ਸਾਨੂੰ ਮੂਰਖ ਨਹੀਂ ਬਣਾ ਰਹੇ ਹਨ।

राज नेता हमें मूर्ख बना रहे हैं।

The politicians are not befooling us.

### C. Interrogative Sentences

82. ਕੀ ਤੁਸੀਂ ਮੈਨੂੰ ਨਜ਼ਰਅੰਦਾਜ਼ ਕਰ ਰਹੇ ਹੋ ?

क्या तुम मेरी उपेक्षा कर रहे हो?

Are you avoiding me?

83. ਕੀ ਅਫਸਰ ਮੁਲਾਜ਼ਮਾਂ ਦਾ ਸ਼ੋਸ਼ਣ ਕਰ ਰਿਹਾ ਹੈ ?

क्या अधिकारी कर्मचारियों का शोषण कर रहा है?

Is the officer exploiting the employees?

84. ਕੀ ਉਹ ਮੇਰਾ ਫੋਨ ਨਹੀਂ ਚੁੱਕ ਰਿਹਾ ਹੈ ?

क्या वह मेरा फ़ोन नहीं उठा रहा है?

Is he not receiving my call?

85. ਕੀ ਤੁਸੀਂ ਧੁੱਪੇ ਬੈਠੇ ਹੋ ?

क्या तुम धूप में बैठे हो?

Are you sitting in the sun?

86. ਕੀ ਉਹ ਆਪਣਾ ਸਮਾਨ ਨਾਲ ਲਿਆ ਰਿਹਾ ਹੈ ?

क्या वह अपना सामान अपने साथ ला रहा है?

Is he bringing his luggage along with him?





## V. Past Continuous Tense

### A. Affirmative Sentences

87. ਉਹ ਮੇਰਾ ਮਜ਼ਾਕ ਉਡਾ ਰਿਹਾ ਸੀ।  
वह मेरा मज़ाक उड़ा रहा था।  
He was making fun of me.
88. ਉਹ ਸ਼ੀਸ਼ੇ ਸਾਹਮਣੇ ਆਪਣੇ ਵਾਲ ਵਾਹ ਰਹੀ ਸੀ।  
वह शीशे के सामने अपने बालों को कंघी कर रही थी।  
She was combing her hair in front of the mirror.
89. ਜਦੋਂ ਤੁਸੀਂ ਫੋਨ ਕੀਤਾ ਸੀ ਮੇਰੇ ਮਾਤਾ ਜੀ ਮੈਨੂੰ ਸਲਾਹ ਦੇ ਰਹੇ ਸਨ।  
जब आप ने फ़ोन किया था, तब मेरे माता जी मुझे सलाह दे रहे थे।  
My mother was giving me a piece of advice when you called me up.
90. ਬੱਚਾ ਪਿਤਾ ਜੀ ਨੂੰ ਮੂਰਖ਼ ਬਣਾਉਣ ਦੀ ਕੋਸ਼ਿਸ਼ ਕਰ ਰਿਹਾ ਸੀ।  
बच्चा पिता जी को मूर्ख बनाने की कोशिश कर रहा था।  
The child was trying to befool his father.

### B. Negative Sentences

91. ਭੋਲੀ ਆਪਣੇ ਪਿਤਾ ਜੀ ਨਾਲ ਬਹਿਸ ਨਹੀਂ ਕਰ ਰਹੀ ਸੀ।  
भोली अपने पिता जी के साथ बहस नहीं कर रही थी।  
Bholi was not arguing with her father.
92. ਸੰਗੀਤਕਾਰ ਇੱਕ ਨਵੀਂ ਧੁਨ ਨਹੀਂ ਬਣਾ ਰਿਹਾ ਸੀ।  
संगीतकार एक नयी धुन की रचना नहीं कर रहा था।  
The musician was not composing a new tune.
93. ਰਾਮ ਲਾਲ ਆਪਣੀ ਧੀ ਦੀ ਚਿੰਤਾ ਨਹੀਂ ਕਰ ਰਿਹਾ ਸੀ।  
राम लाल अपनी बेटी की चिंता नहीं कर रहा था।  
Ram Lal was not worrying about his daughter.
94. ਬੱਚਾ ਰੋ ਨਹੀਂ ਰਿਹਾ ਸੀ।  
बच्चा रो नहीं रहा था।  
The child was not crying.
95. ਮੇਜ਼ਬਾਨ ਮਹਿਮਾਨ ਨੂੰ ਖਾਣਾ ਨਹੀਂ ਪਰੋਸ ਰਿਹਾ ਸੀ।  
मेज़बान मेहमान को खाना नहीं परोस रहा था।  
The host was not serving food to the guest.

### C. Interrogative Sentences

96. ਕੀ ਤੁਸੀਂ ਉਸਦੇ ਬਚਾਓ ਦੀ ਕੋਸ਼ਿਸ਼ ਕਰ ਰਹੇ ਸੀ ?  
ਕੀ ਆਪ ਉਸਦੇ ਬਚਾਓ ਦੀ ਕੋਸ਼ਿਸ਼ ਕਰ ਰਹੇ ਸੀ ?  
Were you trying to defend him?
97. ਕੀ ਪ੍ਰਿੰਸੀਪਲ ਉਸ ਸਮੇਂ ਕਾਗਜ਼ ਤਸਦੀਕ ਕਰ ਰਿਹਾ ਸੀ ?  
ਕੀ ਪ੍ਰਿੰਸੀਪਲ ਉਸ ਸਮੇਂ ਕਾਗਜ਼ ਤਸਦੀਕ ਕਰ ਰਿਹਾ ਸੀ ?  
Was the principal attesting the papers at that time?
98. ਕੀ ਉਸ ਸਮੇਂ ਰਮੇਸ਼ ਆਪਣੀ ਗਲਤੀ ਲਈ ਮੁਆਫੀ ਮੰਗ ਰਿਹਾ ਸੀ ?  
ਕੀ ਰਮੇਸ਼ ਉਸ ਸਮੇਂ ਆਪਣੀ ਗਲਤੀ ਲਈ ਮੁਆਫੀ ਮੰਗ ਰਿਹਾ ਸੀ ?  
Was Ramesh apologizing for his mistake at that time?
99. ਜਦੋਂ ਮੈਂ ਉਸਨੂੰ ਬੁਲਾਇਆ ਸੀ, ਤਾਂ ਕੀ ਬੱਚਾ ਭੋਜਨ ਦਾ ਆਨੰਦ ਮਾਣ ਰਿਹਾ ਸੀ ?  
ਜਦੋਂ ਮੈਂ ਉਸਨੂੰ ਬੁਲਾਇਆ ਸੀ, ਤਾਂ ਕੀ ਬੱਚਾ ਭੋਜਨ ਦਾ ਆਨੰਦ ਮਾਣ ਰਿਹਾ ਸੀ ?  
Was the child relishing the food when I called him?

### VI . Future Continuous Tense

#### A. Affirmative Sentences

100. ਉਹ ਅਗਲੇ ਸਾਲ ਤੋਂ ਬੈਂਕ ਵਿੱਚ ਨੌਕਰੀ ਕਰ ਰਿਹਾ ਹੋਵੇਗਾ।  
ਉਹ ਅਗਲੇ ਸਾਲ ਤੋਂ ਬੈਂਕ ਵਿੱਚ ਨੌਕਰੀ ਕਰ ਰਿਹਾ ਹੋਵੇਗਾ।  
He will be working in a bank next year.
101. ਅਸੀਂ ਆਪਣੇ ਇਮਤਿਹਾਨ ਦੀ ਤਿਆਰੀ ਕਰ ਰਹੇ ਹੋਵਾਂਗੇ।  
ਅਸੀਂ ਆਪਣੇ ਇਮਤਿਹਾਨ ਦੀ ਤਿਆਰੀ ਕਰ ਰਹੇ ਹੋਵਾਂਗੇ।  
We shall be preparing for our examination.
102. ਉਸ ਸਮੇਂ ਮਾਲੀ ਬੂਟਿਆਂ ਨੂੰ ਪਾਣੀ ਦੇ ਰਿਹਾ ਹੋਵੇਗਾ।  
ਉਸ ਸਮੇਂ ਮਾਲੀ ਬੂਟਿਆਂ ਨੂੰ ਪਾਣੀ ਦੇ ਰਿਹਾ ਹੋਵੇਗਾ।  
The gardener will be watering the plants at that time.
103. ਮੈਂ ਜਦੋਂ ਘਰ ਪੁੱਜਾਂਗਾ, ਸੂਰਜ ਅਸਤ ਹੋ ਰਿਹਾ ਹੋਵੇਗਾ।  
ਮੈਂ ਜਦੋਂ ਘਰ ਪੁੱਜਾਂਗਾ, ਸੂਰਜ ਅਸਤ ਹੋ ਰਿਹਾ ਹੋਵੇਗਾ।  
The sun will be setting when I reach home.



### B. Negative Sentences

104. ਜਦੋਂ ਤੁਸੀਂ ਉਸਦੇ ਘਰ ਜਾਉਗੇ, ਉਹ ਰਾਤ ਦਾ ਖਾਣਾ ਨਹੀਂ ਖਾ ਰਿਹਾ ਹੋਵੇਗਾ।  
 जब आप उसके घर जाओगे, वह रात का खाना नहीं खा रहा होगा।  
 He will not be taking dinner when you go to his house.
105. ਜਦੋਂ ਤੁਸੀਂ ਸਾਨੂੰ ਮਿਲਣ ਆਉਗੇ, ਅਸੀਂ ਆਰਾਮ ਨਹੀਂ ਕਰ ਰਹੇ ਹੋਵਾਂਗੇ।  
 जब आप मुझे मिलने आओगे, हम आराम नहीं कर रहे होंगे।  
 We shall not be resting when you visit us.
106. ਅਸੀਂ ਇੱਕ ਹਫ਼ਤੇ ਤਕ ਉੱਥੇ ਨਹੀਂ ਰਹਾਂਗੇ।  
 हम एक सप्ताह तक वहाँ नहीं रहेंगे।  
 We shall not be staying there for a week.
107. ਤਦ ਬਾਰਿਸ਼ ਨਹੀਂ ਹੋ ਰਹੀ ਹੋਵੇਗੀ।  
 तब वर्षा नहीं हो रही होगी।  
 It will not be raining then.

### C. Interrogative Sentences

108. ਕੀ ਤਦ ਉੱਥੇ ਮੀਂਹ ਨਹੀਂ ਪੈ ਰਿਹਾ ਹੋਵੇਗਾ ?  
 क्या तब वहाँ वर्षा नहीं हो रही होगी?  
 Will it not be raining there then?
109. ਜਦੋਂ ਤੁਸੀਂ ਖੇਡ ਦੇ ਮੈਦਾਨ ਵਿਚ ਪੁੱਜੋਗੇ, ਕੀ ਵਿਦਿਆਰਥੀ ਕਤਾਰਾਂ ਵਿੱਚ ਖਲੋਤੇ ਹੋਣਗੇ ?  
 जब आप खेल के मैदान में पहुँचोगे, क्या विद्यार्थी पंक्तियों में खड़े होंगे?  
 Will the students be standing in the queues when you reach the playground?
110. ਕੀ ਸਤੰਬਰ ਵਿੱਚ ਦਰੱਖਤ ਦੇ ਪੱਤੇ ਝੜ ਰਹੇ ਹੋਣਗੇ ?  
 क्या सितम्बर में वृक्ष के पत्ते झड़ रहे होंगे?  
 Will the tree be shedding off its leaves in September?
111. ਕੀ ਕਲ ਸਵੇਰੇ ਸੱਤ ਵਜੇ ਪੁਲਿਸ ਦਾ ਪਿੱਛਾ ਕਰ ਰਹੀ ਹੋਵੇਗੀ ?  
 क्या कल सुबह सात बजे पुलिस चोर का पीछा कर रही होगी?  
 Will the police be chasing the thief at 7a.m. tomorrow?



## VII. Present Perfect Tense

### A. Affirmative Sentences

112. ਉਸ ਨੇ ਚਾਹ ਪੀ ਲਈ ਹੈ।  
उसने चाय पी ली है।  
He has taken tea.
113. ਤਕਨੀਕ ਨੇ ਬਹੁਤ ਤਰੱਕੀ ਕਰ ਲਈ ਹੈ।  
तकनीक ने बहुत उन्नति कर ली है।  
Technology has developed a lot.
114. ਅਸੀਂ ਆਪਣੇ ਸਕੂਲ ਵਿੱਚ ਸਾਇੰਸ ਮੇਲੇ ਦਾ ਆਯੋਜਨ ਕੀਤਾ ਹੈ।  
हमने अपने स्कूल में विज्ञान मेले का आयोजन किया है।  
We have organized a science fair in our school.
115. ਮਹਿੰਗਾਈ ਨੇ ਸਾਡੀ ਜ਼ਿੰਦਗੀ ਨੂੰ ਬਹੁਤ ਪ੍ਰਭਾਵਿਤ ਕੀਤਾ ਹੈ।  
महंगाई ने हमारे जीवन को बहुत प्रभावित किया है।  
Inflation has affected our lives a lot.
116. ਉਹ ਕਾਫੀ ਸਮੇਂ ਪਹਿਲਾਂ ਇਹ ਜਗ੍ਹਾ ਛੱਡ ਚੁੱਕੇ ਹਨ।  
वे काफी समय पहले इस स्थान को छोड़ चुके हैं।  
They have left this place long ago.

### B. Negative Sentences

117. ਉਸਨੇ ਰਿਸ਼ਤੇ ਤੋਂ ਨਾਂਹ ਨਹੀਂ ਕੀਤੀ ਹੈ।  
उसने रिश्ते से मना नहीं किया है।  
She has not refused the marriage proposal.
118. ਮੈਂ ਉਸਨੂੰ ਰਾਜ਼ੀ ਕਰਨ/ਮਨਾਉਣ ਦੀ ਕੋਸ਼ਿਸ਼ ਨਹੀਂ ਕੀਤੀ ਹੈ।  
मैंने उसे मनाने की कोशिश नहीं की है।  
I have not tried to convince her.
119. ਉਸਨੇ ਨਵਾਂ ਸੰਗੀਤ ਨਹੀਂ ਸੁਣਿਆ ਹੈ।  
उसने नया संगीत नहीं सुना है।  
He has not listened to the latest music.
120. ਤੁਹਾਡੇ ਲੜਕੇ ਨੇ ਮੇਰੇ ਨਾਲ ਚੰਗਾ ਸਲੂਕ ਨਹੀਂ ਕੀਤਾ ਹੈ।  
आपके लड़के ने मेरे साथ अच्छा व्यवहार नहीं किया है।  
Your son has not behaved well with me.

121. ਅਸੀਂ ਆਪਣੀ ਗ਼ਲਤੀ ਦਾ ਅਹਿਸਾਸ ਨਹੀਂ ਕੀਤਾ ਹੈ।

हमने अपनी गलती का अहसास नहीं किया है।

We have not realized our mistake.

### C. Interrogative Sentences

122. ਕੀ ਉਸਨੇ ਖੁਦ ਨੂੰ ਮੁਸ਼ੀਬਤ ਵਿੱਚ ਪਾ ਲਿਆ ਹੈ ?

क्या उसने स्वयं को मुसीबत में डाल लिया है?

Has he got himself into trouble?

123. ਕੀ ਉਸਨੇ ਆਪਣੀ ਸਕੂਲੀ ਸਿੱਖਿਆ ਪੂਰੀ ਕਰ ਲਈ ਹੈ ?

क्या उसने अपनी स्कूल की शिक्षा पूरी कर ली है?

Has he completed his schooling?

124. ਕੀ ਤੁਸੀਂ 12ਵੀਂ ਵਿੱਚ ਵਿਗਿਆਨ ਦੀ ਚੋਣ ਨਹੀਂ ਕੀਤੀ ?

क्या आपने 12वीं में विज्ञान का चयन नहीं किया?

Haven't you opted for Science stream in grade 12?

125. ਕੀ ਮੁੱਖ ਮਹਿਮਾਨ ਨੇ ਵਿਦਿਆਰਥੀਆਂ ਦੀ ਕਾਰਗੁਜ਼ਾਰੀ ਦੀ ਪ੍ਰਸ਼ੰਸਾ ਕੀਤੀ ਹੈ ?

क्या मुख्य अतिथि ने विद्यार्थियों के प्रदर्शन की प्रशंसा की है?

Has the Chief Guest applauded the performance of the students?

126. ਕੀ ਉਸਨੇ ਵੋਟ ਪਾ ਲਈ ਹੈ ?

क्या उसने वोट डाल दी है?

Has he cast his vote?

### VIII. Past Perfect Tense

#### A. Affirmative Sentences

127. ਉਹ ਨਵੀਂ ਕਾਰ 2011 ਤਕ ਖਰੀਦ ਚੁੱਕਾ ਸੀ।

वह नयी कार 2011 तक खरीद चुका था।

He had bought a new car by 2011.

128. ਆਪਣੇ ਪਿਤਾ ਜੀ ਦੀ ਮੌਤ ਤੋਂ ਬਾਅਦ ਉਸਨੇ ਆਪਣਾ ਪਰਿਵਾਰਿਕ ਕਾਰੋਬਾਰ ਹੀ ਜਾਰੀ ਰੱਖਿਆ ਸੀ।

अपने पिता जी के मौत के बाद उसने अपना पारिवारिक व्यवसाय ही चालू रखा था।

He had continued his family business after his father's death.

129. ਮੈਂ ਪਹਿਲਾਂ ਹੀ ਇਸ ਕਾਰਖਾਨੇ ਵਿੱਚ ਦੋ ਸਾਲ ਕੰਮ ਕਰ ਚੁੱਕਿਆ ਸੀ।

ਮੈਂ ਪਹਿਲੇ ਹੀ ਇਸ ਕਾਰਖਾਨੇ ਵਿੱਚ ਦੋ ਸਾਲ ਕੰਮ ਕਰ ਚੁੱਕਾ ਸੀ।

I had already worked for two years in this factory.

130. ਹੜਤਾਲ ਤੋਂ ਬਾਅਦ ਕੰਪਨੀ ਨੇ ਪਿਛਲੇ ਸਾਲ ਕਈ ਕਰਮਚਾਰੀ ਨੌਕਰੀ ਤੋਂ ਕੱਢ ਦਿੱਤੇ ਸਨ।

ਹੜਤਾਲ ਦੇ ਬਾਦ ਕੰਪਨੀ ਨੇ ਪਿਛਲੇ ਸਾਲ ਕਈ ਕਰਮਚਾਰੀ ਨੌਕਰੀ ਤੋਂ ਨਿਕਾਲ ਦਿੱਤੇ ਸਨ।

The company had fired many employees after the strike.

#### B. Negative Sentences

131. ਦੋ ਵਜੇ ਤਕ ਅਧਿਆਪਕ ਨੇ ਸਾਰੇ ਉੱਤਰ ਚੈਕ ਨਹੀਂ ਕੀਤੇ ਸਨ।

ਦੋ ਵਜੇ ਤਕ ਅਧਿਆਪਕ ਨੇ ਸਾਰੇ ਉੱਤਰ ਚੈਕ ਨਹੀਂ ਕੀਤੇ ਸਨ।

The teacher had not checked all the answers by 2 p.m.

132. ਮਈ 2016 ਤਕ ਸਰਕਾਰ ਨੇ ਕੋਈ ਨੋਟਿਸ ਜਾਰੀ ਨਹੀਂ ਕੀਤਾ ਸੀ।

ਮਈ 2016 ਤਕ ਸਰਕਾਰ ਨੇ ਕੋਈ ਨੋਟਿਸ ਜਾਰੀ ਨਹੀਂ ਕੀਤਾ ਸੀ।

The government had not issued any notice till May 2016.

133. ਜਦੋਂ ਉਹ ਆਇਆ ਮੈਂ ਆਪਣਾ ਕੰਮ ਖਤਮ ਨਹੀਂ ਕਰ ਚੁੱਕਿਆ ਸੀ।

ਜਦੋਂ ਉਹ ਆਇਆ ਤਦ ਤਕ ਮੈਂ ਆਪਣਾ ਕੰਮ ਖਤਮ ਨਹੀਂ ਕਰ ਚੁੱਕਾ ਸੀ।

I had not finished my work when he came.

134. ਉਹ ਬਾਰਸ਼ ਰੁੱਕਣ ਤੋਂ ਬਾਅਦ ਹੀ ਗਏ।

ਉਹ ਬਾਰਸ਼ ਰੁੱਕਣ ਦੇ ਬਾਦ ਹੀ ਗਏ।

They left after the rain had stopped.

#### C. Interrogative Sentences

135. ਕੀ ਉਪਭੋਗਤਾ ਨੇ ਧੋਖਾ ਖਾਣ ਤੋਂ ਬਾਅਦ ਕੰਪਨੀ ਖਿਲਾਫ਼ ਕੇਸ ਦਾਇਰ ਕਰ ਦਿੱਤਾ ਸੀ?

ਕੀ ਉਪਭੋਗਤਾ ਨੇ ਧੋਖਾ ਖਾਣ ਦੇ ਬਾਦ ਕੰਪਨੀ ਦੇ ਖਿਲਾਫ਼ ਕੇਸ ਦਾਇਰ ਕਰ ਦਿੱਤਾ ਸੀ?

Had the consumer filed a case against the company after he was cheated?

136. ਜਦੋਂ ਤੁਸੀਂ ਹਵਾਈ ਅੱਡਾ ਪੁੱਜੇ, ਕੀ ਹਵਾਈ ਜਹਾਜ਼ ਉਡਾਣ ਭਰ ਚੁੱਕਾ ਸੀ?

ਜਦੋਂ ਤੁਸੀਂ ਹਵਾਈ ਅੱਡਾ ਪਹੁੰਚੇ, ਕੀ ਹਵਾਈ ਜਹਾਜ਼ ਉਡਾਣ ਭਰ ਚੁੱਕਾ ਸੀ?

Had the flight taken off when you reached the airport?

137. ਜਦੋਂ ਤੁਸੀਂ ਸਟੇਸ਼ਨ ਪੁੱਜੇ, ਕੀ ਰੇਲਗੱਡੀ ਆ ਗਈ ਸੀ?

ਜਦੋਂ ਤੁਸੀਂ ਸਟੇਸ਼ਨ ਪਹੁੰਚੇ, ਕੀ ਰੇਲਗੱਡੀ ਆ ਗਈ ਸੀ?

Had the train arrived when you reached the station?

138. ਕੀ ਉਸਨੇ 2017 ਤਕ ਕਾਫ਼ੀ ਧਨ ਇਕੱਠਾ ਕਰ ਲਿਆ ਸੀ ?

ਕਥਾ ਉਸਨੇ 2017 ਤਕ ਕਾਫ਼ੀ ਧਨ ਇਕੱਠਾ ਕਰ ਲਿਆ ਸੀ ?  
Had he accumulated a lot of wealth by 2017?

### IX. Future Perfect Tense

#### A. Affirmative Sentences

139. ਉਸਨੇ ਆਪਣਾ ਘਰ ਦਾ ਕੰਮ ਛੇ ਵਜੇ ਤਕ ਖਤਮ ਕਰ ਲਿਆ ਹੋਵੇਗਾ।

ਉਸਨੇ ਅਪਣਾ ਗ੍ਰਹਕਾਰ्य शाम छह बजे तक समाप्त कर लिया होगा।  
She will have finished her homework by 6 o'clock.

140. ਮੈਂ ਜਦੋਂ ਸਕੂਲ ਪਹੁੰਚਾਂਗਾ, ਵਿਦਿਆਰਥੀ ਮੈਦਾਨ ਵਿੱਚ ਇਕੱਤਰ ਹੋ ਚੁੱਕੇ ਹੋਣਗੇ ?

ਮੈਂ ਜਦੋਂ ਵਿਦੁਆਲਯ ਪਹੁੰਚਾਂਗਾ, ਵਿਦੁਆਰਥੀ ਮੈਦਾਨ ਮੈਂ ਏਕਤ੍ਰਿਤ ਹੋ ਚੁਕੇ ਹੋਣਗੇ।  
The students will have gathered in the ground when I reach there.

141. ਤੁਹਾਡੇ ਤਿਆਰ ਹੋਣ ਤਕ, ਮੈਂ ਪੱਗ ਬੰਨ੍ਹ ਚੁੱਕਾ ਹੋਵਾਂਗਾ।

ਆਪਕੇ ਤੈਧਾਰ ਹੋਨੇ ਤਕ ਮੈਂ ਪਗੜੀ ਬਾਂਧ ਚੁਕਾ ਹੂੰਗਾ।  
I shall have tied the turban by the time you get ready.

142. ਅਸੀਂ ਸੂਰਜ ਡੁੱਬਣ ਤਕ ਵਿਰੋਧੀ ਧਿਰ ਨੂੰ ਹਰਾ ਚੁੱਕੇ ਹੋਵਾਂਗੇ।

ਹਮ ਸੂਰਜ ਓਪਨੇ ਤਕ ਵਿਰੋਧੀ ਪਖ਼ ਕੋ ਹਰਾ ਚੁਕੇ ਹੋਣਗੇ।  
We will have defeated the opponents by sunset.

143. ਅਸੀਂ ਸਾਰੇ ਮਿਲ ਕੇ ਨੌਂ ਵਜੇ ਤਕ ਜਨਮ ਦਿਨ ਮਨਾ ਚੁੱਕੇ ਹੋਵਾਂਗੇ।

ਹਮ ਸਭੀ ਮਿਲਕਰ ਨੌਂ ਬਜੇ ਤਕ ਜਨਮਦਿਨ ਮਨਾ ਚੁਕੇ ਹੋਣਗੇ।  
We all shall have celebrated the birthday by 9 p.m.

#### B. Negative Sentences

144. ਪਿਤਾ ਜੀ ਪੰਜ ਵਜੇ ਤਕ ਘਰ ਨਹੀਂ ਪਹੁੰਚ ਚੁੱਕੇ ਹੋਣਗੇ।

ਪਿਤਾ ਜੀ ਪਾਂਚ ਬਜੇ ਤਕ ਘਰ ਨਹੀਂ ਪਹੁੰਚ ਚੁਕੇ ਹੋਣਗੇ।  
Father will not have reached home by 5 p.m.

145. ਗੱਡੀ ਦੇ ਆਉਣ ਤਕ ਕੁਲੀ ਸਾਰਾ ਸਾਮਾਨ ਨਹੀਂ ਲੈ ਗਿਆ ਹੋਵੇਗਾ।

ਗਾੜੀ ਕੇ ਆਨੇ ਤਕ ਕੁਲੀ ਸਾਰਾ ਸਾਮਾਨ ਨਹੀਂ ਲੇ ਗਯਾ ਹੋਗਾ।  
The porter will not have carried the entire luggage by the time the train arrives.



146. ਅਗਲੇ ਪੰਜ ਸਾਲ ਤਕ ਅਸੀਂ ਨਵੀਂ ਖੋਜ ਨਹੀਂ ਕਰ ਚੁੱਕੇ ਹੋਵਾਂਗੇ।

ਅਗਲੇ ਪੰਜ ਸਾਲ ਤਕ ਫਸ ਨਹੀਂ ਖੋਜ ਨਹੀਂ ਕਰ ਚੁੱਕੇ ਹੋਵਾਂਗੇ।

We shall not have made a new discovery in the next five years.

147. ਅਗਲੇ ਹਫ਼ਤੇ ਤਕ ਤੁਸੀਂ ਸਾਰੇ ਤਰੀਕੇ ਨਹੀਂ ਅਜ਼ਮਾ ਚੁੱਕੇ ਹੋਵੋਗੇ।

ਅਗਲੇ ਸਪਤਾਹ ਤਕ ਆਪ ਸਾਰੇ ਤਰੀਕੇ ਨਹੀਂ ਅਜ਼ਮਾ ਚੁੱਕੇ ਹੋਵੋਗੇ।

You will not have tried all the ways by the next week.

### C. Interrogative Sentences

148. ਕੀ ਤੁਸੀਂ ਸੋਮਵਾਰ ਤਕ ਹਵਾਈ ਯਾਤਰਾ ਕਰ ਚੁੱਕੇ ਹੋਵੋਗੇ ?

ਕੀ ਆਪ ਸੋਮਵਾਰ ਤਕ ਫਰਾਈ ਯਾਤਰਾ ਕਰ ਚੁੱਕੇ ਹੋਵੋਗੇ ?

Will you have travelled by air by Monday?

149. ਕੀ ਮੰਤਰੀ ਜੀ ਨੇ ਅੰਤ ਵਿਚ ਚੋਣਾਂ ਭਾਰੀ ਅੰਤਰ ਨਾਲ ਜਿੱਤ ਲਈਆਂ ਹੋਣਗੀਆਂ ?

ਕੀ ਮੰਤਰੀ ਜੀ ਨੇ ਅੰਤ ਮੈਂ ਚੁਨਾਵ ਖਾਰੀ ਅੰਤਰ ਸੇ ਜੀਤ ਲਿਏ ਹੋਵੇਗੇ ?

Will the minister have won the election by a big margin in the end?

150. ਕੀ ਹਵਾਈ ਜਹਾਜ਼ ਦੁਪਹਿਰ ਦੇ ਵਜੇ ਤਕ ਉੱਤਰ ਚੁੱਕਿਆ ਹੋਵੇਗਾ ?

ਕੀ ਹਵਾਈ ਜਹਾਜ਼ ਦੁਪਹਿਰ ਦੇ ਵਜੇ ਤਕ ਉੱਤਰ ਚੁੱਕਿਆ ਹੋਵੇਗਾ ?

Will the plane have landed by 2 p.m.?

151. ਕੀ ਮਜ਼ਦੂਰ ਯੂਨੀਅਨ ਨੇ ਅਗਲੇ ਮਹੀਨੇ ਹੜਤਾਲ ਖਤਮ ਕਰ ਦਿੱਤੀ ਹੋਵੇਗੀ ?

ਕੀ ਮਜ਼ਦੂਰ ਸੰਘ ਨੇ ਅਗਲੇ ਮਹੀਨੇ ਹੜਤਾਲ ਖਤਮ ਕਰ ਦੀ ਹੋਵੇਗੀ ?

Shall the workers' union have called off the strike by the next month?

152. ਕੀ ਪੀੜਤ ਨੇ ਦਸੰਬਰ ਤਕ ਅਦਾਲਤ ਵਿੱਚ ਗੁਹਾਰ ਲਗਾਈ ਹੋਵੇਗੀ ?

ਕੀ ਪੀੜਤ ਨੇ ਦਿਸੰਬਰ ਤਕ ਅਦਾਲਤ ਮੈਂ ਅਪੀਲ ਲਗਾਈ ਹੋਵੇਗੀ ?

Will the victim have appealed in the court by December?

### X. Present Perfect Continuous Tense

#### A. Affirmative Sentences

153. ਮੈਂ ਪਿਛਲੇ 20 ਸਾਲ ਤੋਂ ਇਸ ਮਕਾਨ ਵਿੱਚ ਰਹਿ ਰਿਹਾ ਹਾਂ।

I have been living in this house for last twenty years.

ਮੈਂ ਪਿਛਲੇ 20 ਸਾਲਾਂ ਸੇ ਇਸ ਸਕਾਨ ਮੈਂ ਰਹ ਰਹਾ ਹੂੰ।

154. ਦੋਨੋਂ ਸਹੇਲੀਆਂ ਸਵੇਰ ਤੋਂ ਹੀ ਗੱਪਾਂ ਮਾਰ ਰਹੀਆਂ ਹਨ।

ਦੋਨੋਂ ਸਹੇਲੀਆਂ ਸੁਬਹ ਸੇ ਹੀ ਗੱਪੇ ਮਾਰ ਰਹੀ ਹਨ।

Both the friends have been gossiping since morning.

155. ਦੋਨੋਂ ਪਰਿਵਾਰ ਕਾਫੀ ਸਮੇਂ ਤੋਂ ਇੱਕ ਦੂਸਰੇ ਨਾਲ ਲੜ ਰਹੇ ਹਨ।  
 दोनों परिवार काफी समय से एक दूसरे से लड़ रहे हैं।  
 Both the families have been quarrelling with each other since long.
156. ਉਹ ਕਾਫੀ ਸਮੇਂ ਤੋਂ ਇਸ ਦਿਨ ਦੀ ਤਿਆਰੀ ਕਰ ਰਿਹਾ ਹੈ।  
 वह काफी समय से इस दिन की तैयारी कर रहा है।  
 He has been waiting for this day since ages.
157. ਮੈਂ 2:00 ਵਜੇ ਤੋਂ ਫਿਲਮ ਦੇਖ ਰਿਹਾ ਹਾਂ।  
 मैं 2:00 बजे से फिल्म देख रहा हूँ।  
 I have been watching the movie since 2 o'clock.

#### B. Negative Sentences

158. ਰਮੇਸ਼ ਕਈ ਦਿਨਾਂ ਤੋਂ ਸਕੂਲ ਨਹੀਂ ਆ ਰਿਹਾ ਹੈ।  
 रमेश कई दिन से स्कूल नहीं आ रहा है।  
 Ramesh has not been coming to school for many days.
159. ਉਮੀਦਵਾਰ ਪਿਛਲੇ ਹਫ਼ਤੇ ਤੋਂ ਚੋਣ ਪ੍ਰਚਾਰ ਨਹੀਂ ਕਰ ਰਿਹਾ ਹੈ।  
 उम्मीदवार पिछले सप्ताह से चुनाव प्रचार नहीं कर रहा है।  
 The candidate has not been canvassing since last week.
160. ਤੁਸੀਂ ਕਈ ਦਿਨਾਂ ਤੋਂ ਮੈਨੂੰ ਮਿਲਣ ਨਹੀਂ ਆਏ ਹੋ।  
 आप कई दिनों से मुझे मिलने नहीं आए हो।  
 You have not come to meet me for many days.
161. ਉਸਦੇ ਦਾਦੀ ਜੀ ਸਵੇਰ ਤੋਂ ਖਾਣਾ ਨਹੀਂ ਖਾ ਰਹੀ ਹੈ।  
 उसकी दादी जी सुबह से खाना नहीं खा रही हैं।  
 Her grandmother has not been eating since morning.
162. ਬੱਚਾ ਸ਼ਾਮ ਤੋਂ ਆਪਣੇ ਮਾਤਾ ਪਿਤਾ ਜੀ ਦੀ ਗੱਲ ਨਹੀਂ ਸੁਣ ਰਿਹਾ ਹੈ।  
 बच्चा शाम से अपने माता-पिता जी की बात नहीं सुन रहा है।  
 The child has not been listening to his parents since evening.

#### C. Interrogative Sentences

163. ਕੀ ਤੁਸੀਂ 1990 ਤੋਂ ਇੱਥੇ ਕੰਮ ਕਰ ਰਹੇ ਹੋ ?  
 क्या आप 1990 से यहाँ काम कर रहे हो?  
 Have you been working here since 1990?



164. ਕੀ ਮੈਕੈਨਿਕ ਸਵੇਰ ਤੋਂ ਮੋਟਰ ਠੀਕ ਕਰ ਰਿਹਾ ਹੈ ?

ਕੀ ਮੈਕੈਨਿਕ ਸੁਬਹ ਸੇ ਮੋਟਰ ਠੀਕ ਕਰ ਰਹਾ ਹੈ?

Has the mechanic been repairing the motor since morning?

165. ਕੀ ਤੁਸੀਂ ਕਈ ਮਹੀਨਿਆਂ ਤੋਂ ਪ੍ਰੀਖਿਆ ਦੀ ਤਿਆਰੀ ਕਰ ਰਹੇ ਹੋ ?

ਕੀ ਆਪ ਕਈ ਸਹੀਨੋਂ ਸੇ ਪਰੀਖਾ ਕੀ ਤੈਧਾਰੀ ਕਰ ਰਹੇ ਹੋ?

Have you been preparing for exams for many months?

166. ਕੀ ਕਿਰਾਏਦਾਰ ਪਿਛਲੇ ਛੇ ਮਹੀਨਿਆਂ ਤੋਂ ਕਿਰਾਇਆ ਨਹੀਂ ਦੇ ਰਿਹਾ ਹੈ ?

ਕੀ ਕਿਰਾਏਦਾਰ ਪਿਛਲੇ ਛੇ ਸਹੀਨੋਂ ਸੇ ਕਿਰਾਧਾ ਨਹੀਂ ਦੇ ਰਹਾ ਹੈ?

Has the tenant not been paying the rent for the last six months?

167. ਕੀ ਅਧਿਆਪਕ ਸਵੇਰ ਤੋਂ ਪੜ੍ਹਾ ਰਿਹਾ ਹੈ ?

ਕੀ ਅਧਿਆਪਕ ਸੁਬਹ ਸੇ ਪੜ੍ਹਾ ਰਹਾ ਹੈ?

Has the teacher been teaching since morning?

### XI. Past Perfect Continuous Tense

#### A. Affirmative Sentences

168. ਜਦੋਂ ਉਸਦੇ ਪਿਤਾ ਜੀ ਦੀ ਮੌਤ ਹੋ ਗਈ ਉਹ ਪਿਛਲੇ ਦਸ ਸਾਲਾਂ ਤੋਂ ਮਿਹਨਤ ਕਰ ਰਿਹਾ ਸੀ।

ਜਬ ਤਸਕੇ ਪਿਤਾ ਜੀ ਕੀ ਮ੍ਰ੍ਤੁ ਹੋ ਗਈ, ਵਹ ਪਿਛਲੇ ਦਸ ਸਾਲੋਂ ਸੇ ਮੇਹਨਤ ਕਰ ਰਹਾ ਥਾ।

He had been working hard for the last ten years when his father died.

169. ਜਦੋਂ ਮੈਂ ਉਸਨੂੰ ਮਿਲਣ ਲਈ ਗਈ, ਬੱਚਾ ਸਵੇਰ ਤੋਂ ਹੀ ਰੋ ਰਿਹਾ ਸੀ।

ਜਬ ਮੈਂ ਤਸਸੇ ਮਿਲਨੇ ਗਈ, ਬਚਾ ਸੁਬਹ ਸੇ ਹੀ ਰੋ ਰਹਾ ਥਾ।

The child had been crying since morning when I visited her.

170. ਜਦੋਂ ਮੈਂ ਘਰ ਪਹੁੰਚਿਆ ਤਾਂ ਪਿਛਲੇ ਦੋ ਘੰਟੇ ਤੋਂ ਉਹ ਮੇਰਾ ਇੰਤਜ਼ਾਰ ਕਰ ਰਹੇ ਸਨ।

ਜਬ ਮੈਂ ਘਰ ਪਹੁੰਚਾ ਤੋ ਪਿਛਲੇ ਦੋ ਘੰਟੇ ਸੇ ਵਹ ਮੇਰੀ ਪਰੀਖਾ ਕਰ ਰਹੇ ਥੇ।

They had been waiting for me for the last two hours when I reached home.

171. ਮੈਂ ਪਿਛਲੇ ਕਈ ਦਿਨਾਂ ਤੋਂ ਇਸ ਕਿਤਾਬ ਨੂੰ ਪੜ੍ਹ ਰਿਹਾ ਸੀ।

ਮੈਂ ਪਿਛਲੇ ਕਈ ਦਿਨੋਂ ਸੇ ਇਸ ਪੁਸਤਕ ਕੋ ਪੜ੍ਹ ਰਹਾ ਥਾ।

I had been reading this book for last many days.

172. ਪ੍ਰਕਾਸ਼ ਪਿਛਲੇ ਕਈ ਸਾਲਾਂ ਤੋਂ ਟੈਨਿਸ ਖੇਡਦਾ ਰਿਹਾ ਸੀ।

ਪ੍ਰਕਾਸ਼ ਪਿਛਲੇ ਕਈ ਸਾਲੋਂ ਸੇ ਟੈਨਿਸ ਖੇਲ ਰਹਾ ਥਾ।

Prakash had been playing tennis for last many years.

### B. Negative Sentences

173. ਮਾਲੀ ਸੋਮਵਾਰ ਤੋਂ ਪੌਦਿਆਂ ਨੂੰ ਪਾਣੀ ਨਹੀਂ ਦੇ ਰਿਹਾ ਸੀ।  
ਮਾਲੀ ਸੋਮਵਾਰ ਸੋ ਪੌਦਿਆਂ ਨੂੰ ਪਾਣੀ ਨਹੀਂ ਦੇ ਰਿਹਾ ਸੀ।  
The gardener had not been watering the plants since Monday.
174. ਸਚਿਨ ਦੋ ਸਾਲਾਂ ਤੋਂ ਕ੍ਰਿਕੇਟ ਨਹੀਂ ਖੇਡ ਰਿਹਾ ਸੀ।  
ਸਚਿਨ ਦੋ ਸਾਲਾਂ ਤੋਂ ਕ੍ਰਿਕੇਟ ਨਹੀਂ ਖੇਡ ਰਿਹਾ ਸੀ।  
Sachin had not been playing cricket for two years.
175. ਰਵੀ ਪਿਛਲੇ ਦਸ ਦਿਨਾਂ ਤੋਂ ਸਕੂਲ ਨਹੀਂ ਆ ਰਿਹਾ ਸੀ।  
ਰਵੀ ਪਿਛਲੇ ਦਸ ਦਿਨਾਂ ਤੋਂ ਸਕੂਲ ਨਹੀਂ ਆ ਰਿਹਾ ਸੀ।  
Ravi had not been coming to school for the last ten days.

### C. Interrogative Sentences

176. ਕੀ ਤੁਸੀਂ ਇੱਥੇ ਪਿਛਲੇ ਪੰਜ ਸਾਲਾਂ ਤੋਂ ਕੰਮ ਕਰ ਰਹੇ ਸੀ ?  
ਕੀ ਤੁਸੀਂ ਇੱਥੇ ਪਿਛਲੇ ਪੰਜ ਸਾਲਾਂ ਤੋਂ ਕੰਮ ਕਰ ਰਹੇ ਸੀ ?  
Had you been working here for the last five years?
177. ਕੀ ਬੱਚਾ ਪਿਛਲੇ ਪੰਦਰਾਂ ਦਿਨਾਂ ਤੋਂ ਬੀਮਾਰ ਸੀ ?  
ਕੀ ਬੱਚਾ ਪਿਛਲੇ 15 ਦਿਨਾਂ ਤੋਂ ਬੀਮਾਰ ਸੀ ?  
Had the child been sick for the last fifteen days?
178. ਕੀ ਜਦੋਂ ਉਹ ਘਰ ਆਏ ਤਾਂ ਉਨ੍ਹਾਂ ਦੀ ਬੇਟੀ ਕੰਮ ਦੇ ਘੰਟਿਆਂ ਤੋਂ ਕੰਮ ਕਰ ਰਹੀ ਸੀ।  
ਜਦੋਂ ਉਹ ਘਰ ਆਏ ਤਾਂ ਉਨ੍ਹਾਂ ਦੀ ਬੇਟੀ ਕੰਮ ਦੇ ਘੰਟਿਆਂ ਤੋਂ ਕੰਮ ਕਰ ਰਹੀ ਸੀ।  
Had his daughter been working for two hours when he came home?

## XII. Future Perfect Continuous Tense

### A. Affirmative Sentences

179. ਉਸਦੇ ਪਿਤਾ ਜੀ ਸਵੇਰੇ ਦੋ ਘੰਟੇ ਤੋਂ ਬਗੀਚੇ ਵਿੱਚ ਦਰੱਖਤ ਲਗਾ ਰਹੇ ਹੋਣਗੇ।  
ਉਸਦੇ ਪਿਤਾ ਜੀ ਸਵੇਰੇ ਦੋ ਘੰਟੇ ਤੋਂ ਬਗੀਚੇ ਵਿੱਚ ਦਰੱਖਤ ਲਗਾ ਰਹੇ ਹੋਣਗੇ।  
His father will have been planting trees in the garden for two hours in the morning.
180. ਉਹ ਦੋ ਵਜੇ ਤੱਕ ਚਾਰ ਘੰਟੇ ਲਈ ਮੇਰੀ ਉਡੀਕ ਕਰ ਰਿਹਾ ਹੋਵੇਗਾ।  
ਉਹ ਦੋ ਵਜੇ ਤੱਕ ਚਾਰ ਘੰਟੇ ਲਈ ਮੇਰੀ ਉਡੀਕ ਕਰ ਰਿਹਾ ਹੋਵੇਗਾ।  
He will have been waiting for me for four hours by 2 o'clock.



181. ਉਹ ਅਗਲੇ ਮਹੀਨੇ ਕਾਰ ਚਲਾਉਣੀ ਸਿੱਖ ਰਿਹਾ ਹੋਵੇਗਾ।

वह अगले महीने कार चलाना सीख रहा होगा।

He will have been learning how to drive a car next month.

#### B. Negative Sentences

182. ਕੱਲ, ਇਸ ਸਮੇਂ ਨੇਤਾ ਜੀ ਲੰਮੇ ਸਮੇਂ ਤਕ ਭਾਸ਼ਣ ਨਹੀਂ ਦੇ ਰਹੇ ਹੋਣਗੇ।

कल, इस समय तक नेता जी लम्बे-लम्बे भाषण नहीं दे रहे होंगे।

The leader will not have been delivering the speech by this time tomorrow.

183. ਮੈਂ ਜਦੋਂ ਸਕੂਲ ਜਾਵਾਂਗਾ, ਮੁੰਡੇ ਫੁੱਟਬਾਲ ਨਹੀਂ ਖੇਡ ਰਹੇ ਹੋਣਗੇ।

मैं स्कूल जाऊँगा, लड़के फुटबॉल नहीं खेल रहे होंगे।

When I go to school, the boys will not have been playing football.

184. ਮੈਂ ਜਦੋਂ ਘਰ ਪੁੱਜਾਂਗਾ ਮਾਤਾ ਜੀ ਖਾਣਾ ਨਹੀਂ ਬਣਾ ਰਹੇ ਹੋਣਗੇ।

जब मैं घर पहुँचूँगा, माता जी खाना नहीं बना रही होंगी।

The mother will not have been cooking when I reach home.

#### C. Interrogative Sentences

185. ਕੀ ਡਰਾਈਵਰ ਲਗਾਤਾਰ 15 ਦਿਨ ਤੱਕ ਕਾਰ ਚਲਾ ਰਿਹਾ ਹੋਵੇਗਾ ?

क्या ड्राइवर लगातार 15 दिनों से कार चला रहा होगा?

Will the driver have been continuously driving the car for fifteen days?

186. ਕੀ ਅਸੀਂ ਮਈ ਮਹੀਨੇ ਵਿੱਚ ਹਰ ਰੋਜ਼ ਦੋ ਘੰਟੇ ਲਈ ਪੈਸੇ ਇਕੱਠੇ ਕਰ ਰਹੇ ਹੋਵਾਂਗੇ ?

Shall we have been collecting the money for two hours everyday in May?

क्या हम मई महीने में हर रोज़ दो घंटे पैसे इकट्ठे कर रहे होंगे?

187. ਕੀ ਜਦ ਮੈਂ ਘਰ ਵਾਪਿਸ ਆਵਾਂਗਾ ਬੱਚੇ ਸਵੇਰ ਤੋਂ ਪਤੰਗ ਉਡਾ ਰਹੇ ਹੋਣਗੇ ?

क्या जब मैं घर वापिस आऊँगा, बच्चे सुबह से पतंग उड़ा रहे होंगे?

Will the children have been flying the kites since morning when I return home?

## IMPERATIVE SENTENCES

### Imperative Sentences

188. Obey your teacher. ਆਪਣੇ ਅਧਿਆਪਕਾਂ ਦੀ ਆਗਿਆ ਦਾ ਪਾਲਣ ਕਰੋ। ਅਪਣੇ ਅਧਿਆਪਕਾਂ ਦੀ ਆਜ਼ਾ ਕਾ ਪਾਲਨ ਕਰੋ।
189. Help the poor. ਗਰੀਬਾਂ ਦੀ ਮਦਦ ਕਰੋ। ਗਰੀਬਾਂ ਦੀ ਸਹਾਯਤਾ ਕਰੋ।
190. Post this letter. ਇਸ ਚਿੱਠੀ ਨੂੰ ਡਾਕ ਰਾਹੀਂ ਭੇਜੋ। ਇਸ ਪੱਤਰ ਨੂੰ ਡਾਕ ਦੁਆਰਾ ਭੇਜੋ।
191. Don't kill animals. ਜਾਨਵਰਾਂ ਨੂੰ ਨਾ ਮਾਰੋ। ਪਸ਼ੂਆਂ ਦੀ ਹੱਤਿਆ ਨਾ ਕਰੋ।
192. Never play with fire. ਅੱਗ ਨਾਲ ਨਾ ਖੇਡੋ। ਅੱਗ ਨਾਲ ਖੇਡਣਾ ਨਾ ਕਰੋ।

### Affirmative Sentences

193. ਪਰਮਾਤਮਾ ਉੱਪਰ ਭਰੋਸਾ ਰੱਖੋ। ਪਰਮਾਤਮਾ ਪਰ ਵਿਸ਼ਵਾਸ ਰੱਖੋ। Trust in God.
194. ਆਪਣੇ ਵੱਡਿਆਂ ਦੀ ਆਗਿਆ ਦਾ ਪਾਲਣ ਕਰੋ। ਵੱਡਿਆਂ ਦਾ ਸਤਕਾਰ ਕਰੋ। Obey your elders.
195. ਜੇਬ ਕਤਰਿਆਂ ਤੋਂ ਬਚੋ। ਜੇਬ ਕਤਰੀਆਂ ਤੋਂ ਬਚੋ। Beware of the pickpockets.
196. ਉਸਨੂੰ ਜਾਣ ਦਿਉ। ਉਸਨੂੰ ਜਾਣ ਦੇਣਾ। Let him go.
197. ਜਲਦੀ ਕਰੋ। ਜਲਦੀ ਕਰੋ। Hurry up.

### Negative Sentences

198. ਮੈਨੂੰ ਤੰਗ ਨਾ ਕਰੋ। ਮੁਝੇਂ ਤੰਗ ਨਾ ਕਰੋ। Don't disturb me.
199. ਗਰੀਬ ਦਾ ਮਜ਼ਾਕ ਨਾ ਉਡਾਉ। ਗਰੀਬ ਦਾ ਮਜ਼ਾਕ ਨਾ ਉਡਾਓ। Don't make fun of the poor.
200. ਅਫਵਾਹਾਂ ਨਾ ਫੈਲਾਉ। ਅਫਵਾਹ ਨਾ ਫੈਲਾਓ। Don't spread rumours.
201. ਕਿਸੇ ਦੀ ਚੁਗਲੀ ਨਾ ਕਰੋ। ਕਿਸੇ ਦੀ ਚੁਗਲੀ ਨਾ ਕਰੋ। Don't backbite anyone.
202. ਬਕਵਾਸ ਨਾ ਕਰੋ। ਬਕਵਾਸ ਨਾ ਕਰੋ। Don't talk nonsense.

## EXERCISES (UNSOLVED)

### Exercise 1 (Unsolved)

Translate into English:

203. ਨੰਗੇ ਪੈਰ ਨਾ ਚੱਲੋ। ਨੰਗੇ ਪਾਧ ਨਾ ਚਲੋ।
204. ਆਪਣੀ ਸਿਹਤ ਦਾ ਧਿਆਨ ਰੱਖੋ। ਅਪਣੇ ਸਵਾਸਥਯ ਦਾ ਧਿਆਨ ਰੱਖੋ।

The Art of Translation

309

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|-------------------------------|---------------------|
| 205. ਸਮਾਂ ਬਰਬਾਦ ਨਾ ਕਰੋ।       | ਸਮਧ ਬਰਬਾਦ ਨ ਕਰੋ।    |
| 206. ਸਮੇਂ ਦਾ ਸਹੀ ਇਸਤੇਮਾਲ ਕਰੋ। | ਸਮਧ ਕਾ ਸਦੁਪਯੋਗ ਕਰੋ। |
| 207. ਖੱਬੇ ਹੱਥ ਚੱਲੋ।           | ਬਾਏਂ ਹਾਥ ਚਲੋ।       |
| 208. ਪੁਲਿਸ ਨੂੰ ਬੁਲਾਓ।         | ਪੁਲਿਸ ਕੋ ਬੁਲਾਓ।     |
| 209. ਅਭਿਆਸ ਕਰੋ।               | ਅਭਿਆਸ ਕਰੋ।          |
| 210. ਆਪਣਾ ਕੰਮ ਆਪ ਕਰੋ।         | ਅਪਨਾ ਕਾਰਧ ਸਵਧ ਕਰੋ।  |
| 211. ਆਪਣਾ ਧਿਆਨ ਰੱਖੋ।          | ਅਪਨਾ ਧਯਾਨ ਰਖੋ।      |
| 212. ਮਿਹਨਤ ਕਰੋ।               | ਪਰਿਸ਼ਰਮ ਕਰੋ।        |

#### Exercise 2 (Unsolved)

Translate into English:

- |   |  |
|---|--|
| 213. ਸੂਰਜ ਡੁੱਬ ਗਿਆ ਹੈ।                            | ਸੂਰਜ ਅਸਤ ਹੋ ਗਯਾ ਹੈ।                            |
| 214. ਹਲਕੀ ਜਿਹੀ ਹਵਾ ਚਲਣੀ ਸ਼ੁਰੂ ਹੋ ਗਈ ਹੈ।           | ਸਨਦ-ਸਨਦ ਹਵਾ ਚਲਨੀ ਸ਼ੁਰੂ ਹੋ ਗਈ ਹੈ।               |
| 215. ਬਹੁਤ ਸਾਰੇ ਲੋਕ ਸਟੇਸ਼ਨ ਦੇ ਬਾਹਰ ਇਕੱਠੇ ਹੋ ਗਏ ਸਨ। | ਬਹੁਤ ਸਾਰੇ ਲੋਗ ਸਟੇਸ਼ਨ ਕੇ ਬਾਹਰ ਏਕਤ੍ਰਿਤ ਹੋ ਗਏ ਥੇ। |
| 216. ਮੈਨੂੰ ਇਹ ਕਿਤਾਬ ਚਾਹੀਦੀ ਹੈ।                    | ਮੁਝੇਂ ਯਹ ਪੁਸਤਕ ਚਾਹਿਏ।                          |
| 217. ਭੂਗੋਲ ਮੇਰਾ ਪਸੰਦੀਦਾ ਵਿਸ਼ਾ ਹੈ।                 | ਭੂਗੋਲ ਮੇਰਾ ਸਨਪਸਨਦ ਵਿਸਧ ਹੈ।                     |
| 218. ਮੈਨੂੰ ਸਕੂਲ ਪਹੁੰਚਣ ਵਿੱਚ ਦੇਰ ਹੋ ਗਈ ਹੈ।         | ਮੁਝੇਂ ਸਕੂਲ ਪਹੁੰਚਨੇ ਮੇਂ ਦੇਰ ਹੋ ਗਈ ਹੈ।           |
| 219. ਜਦ ਤਕ ਤੁਸੀਂ ਕਹੋਗੇ, ਉਹ ਜਾਗਦੀ ਰਹੇਗੀ।           | ਜਬ ਤਕ ਆਪ ਕਹੋਗੇ, ਵਹ ਜਾਗਤੀ ਰਹੇਗੀ।                |
| 220. ਮਾਲੀ ਪੌਦਿਆਂ ਨੂੰ ਪਾਣੀ ਦੇ ਰਿਹਾ ਸੀ।             | ਸਾਲੀ ਪੌਧੋਂ ਕੋ ਪਾਨੀ ਦੇ ਰਹਾ ਥਾ।                  |
| 221. ਇਹ ਬਹੁਤ ਹੀ ਦਿਲਚਸਪ ਕਹਾਣੀ ਹੈ।                  | ਯਹ ਬਹੁਤ ਹੀ ਸਨੋਰੰਜਕ ਕਹਾਨੀ ਹੈ।                   |
| 222. ਉਹ ਸ਼ਾਇਦ ਅੱਜ ਆ ਜਾਵੇ।                         | ਵਹ ਸ਼ਾਧਦ ਅਾਜ ਆ ਜਾਏ।                            |

#### Exercise 3 (Unsolved)

Translate into English:

- |  |  |
|--|--|
| 223. ਉਹ ਕਈ ਘੰਟੇ ਲਗਾਤਾਰ ਕੰਮ ਕਰ ਸਕਦਾ ਹੈ। | ਵਹ ਕਈ ਘੰਟੇ ਲਗਾਤਾਰ ਕਾਰਧ ਕਰ ਸਕਤਾ ਹੈ।     |
| 224. ਰੇਖਾ ਮੇਰੀ ਮਨਭਾਉਂਦੀ ਅਭਿਨੇਤਰੀ ਹੈ।   | ਰੇਖਾ ਮੇਰੀ ਸਨਪਸਨਦ ਅਭਿਨੇਤਰੀ ਹੈ।          |
| 225. ਸਿਗਰੇਟ ਪੀਣਾ ਸਿਹਤ ਲਈ ਹਾਨੀਕਾਰਕ ਹੈ।  | ਸਿਗਰੇਟ ਪੀਨਾ ਸਵਾਸਥਧ ਕੇ ਲਿਏ ਹਾਨਿਕਾਰਕ ਹੈ। |
| 226. ਉਹ ਅਨਾਥ ਸੀ।                       | ਵਹ ਅਨਾਥ ਥਾ।                            |

227. ਦਰੇਜ ਦੀ ਪ੍ਰਥਾ ਸਮਾਜ ਉੱਪਰ ਇੱਕ ਕਲੰਕ ਹੈ। ਵਧੇਜ ਪ੍ਰਥਾ ਸਮਾਜ ਪਰ ਏਕ ਕਲੰਕ ਹੈ।  
 228. ਉਹ ਉਮਰ ਵਿੱਚ ਮੇਰੇ ਤੋਂ ਵੱਡੀ ਹੈ। ਵਧ ਉਮਰ ਮੇਂ ਮੁੜਸੇ ਬਡੀ ਹੈ।  
 229. ਦੋਨੋਂ ਭਰਾਵਾਂ ਦੀ ਆਪਸ ਵਿੱਚ ਨਹੀਂ ਬਣਦੀ। ਦੋਨੋਂ ਭਾਈਓਂ ਕੀ ਆਪਸ ਮੇਂ ਨਹੀਂ ਬਨਦੀ।  
 230. ਹਰਿਦੁਆਰ ਭਾਰਤ ਦਾ ਸਭ ਤੋਂ ਪ੍ਰਸਿੱਧ ਤੀਰਥ ਅਸਥਾਨ ਹੈ।  
 ਹਰਿਦੁਆਰ ਭਾਰਤ ਕਾ ਬਹੁਤ ਪ੍ਰਸਿੱਧ ਤੀਰਥ ਸਥਾਨ ਹੈ।  
 231. ਡਾ. ਏ.ਪੀ.ਜੇ. ਅਬਦੁਲ ਕਲਾਮ ਇੱਕ ਵਿਸ਼ਵ ਪ੍ਰਸਿੱਧ ਵਕਤਾ ਸਨ।  
 ਡਾ. ਏ.ਪੀ.ਜੇ. ਅਬਦੁਲ ਕਲਾਮ ਏਕ ਵਿਸ਼ਵ ਪ੍ਰਸਿੱਧ ਵਕਤਾ ਥੇ।  
 232. ਜਨਸੰਖਿਆ ਵਿੱਚ ਭਾਰਤ ਵਿਸ਼ਵ ਵਿੱਚ ਦੂਸਰੇ ਸਥਾਨ 'ਤੇ ਹੈ।  
 ਜਨਸੰਖਿਆ ਮੇਂ ਭਾਰਤ ਵਿਸ਼ਵ ਮੇਂ ਦੂਸਰੇ ਸਥਾਨ ਪਰ ਹੈ।

#### Exercise 4 (Unsolved)

Translate into English :

- |                                       |                               |
|---------------------------------------|-------------------------------|
| 233. ਉਹ ਇੱਕ ਵਧੀਆ ਕਲਾਕਾਰ ਹੈ।           | ਵਹ ਏਕ ਅਛਾ ਕਲਾਕਾਰ ਹੈ।          |
| 234. ਅੱਜ ਖੁੱਪ ਬਹੁਤ ਤੇਜ਼ ਹੈ।           | ਆਜ ਖੁੱਪ ਬਹੁਤ ਤੇਜ਼ ਹੈ।         |
| 235. ਕੀ ਤੁਹਾਨੂੰ ਮੇਰੇ ਉੱਪਰ ਭਰੋਸਾ ਨਹੀਂ? | ਕਿਆ ਆਪਕੋ ਮੁੜ ਪਰ ਭਰੋਸਾ ਨਹੀਂ?   |
| 236. ਜੱਜ ਨੇ ਉਸਨੂੰ ਜ਼ਮਾਨਤ ਦੇ ਦਿੱਤੀ ਹੈ। | ਜੱਜ ਨੇ ਉਸਕੋ ਜਮਾਨਤ ਦੇ ਦੀ।      |
| 237. ਜੇ ਗੱਜਦੇ ਹਨ ਉਹ ਵੱਸਦੇ ਨਹੀਂ।       | ਜੇ ਗਰਜਦੇ ਹੈਂ, ਵੇ ਬਰਸਦੇ ਨਹੀਂ।  |
| 238. ਉਹ ਤੁਹਾਡਾ ਉੱਲੂ ਖਿੱਚ ਰਿਹਾ ਹੈ।     | ਵਹ ਆਪਕੋ ਉਲੂ ਬਨਾ ਰਹਾ ਹੈ।       |
| 239. ਗਰੀਬ ਦੀ ਬਦਦੁਆ ਕਦੇ ਨਾ ਲਉ।         | ਗਰੀਬ ਕਾ ਸ਼ਾਪ ਕਮੀ ਨ ਲੋ।        |
| 240. ਇਸ ਸੜਕ ਦੀ ਮੁਰੰਮਤ ਨਹੀਂ ਕੀਤੀ ਗਈ।   | ਸੜਕ ਕੀ ਮਰਮਮਤ ਨਹੀਂ ਕੀ ਗਈ।      |
| 241. ਜਿਹਾ ਕਰੋਗੇ ਤਿਹਾ ਭਰੋਗੇ।           | ਜੈਸਾ ਕਰੋਗੇ ਵੈਸਾ ਭਰੋਗੇ।        |
| 242. ਕੀ ਮੈਂ ਤੁਹਾਡਾ ਇੰਤਜ਼ਾਰ ਕਰਾਂ?      | ਕਿਆ ਮੈਂ ਆਪਕੀ ਪ੍ਰਤੀਕਸ਼ਾ ਕਰਵਾਂ? |

#### Exercise 5 (Unsolved)

Translate into English:

- |  |                                   |
|--|-----------------------------------|
| 243. ਸ਼ਹਿਰ ਵਿੱਚ ਡੇਂਗੂ ਫੈਲ ਰਿਹਾ ਹੈ।       | ਸ਼ਹਰ ਮੇਂ ਡੇਂਗੂ ਫੈਲ ਰਹਾ ਹੈ।        |
| 244. ਉੱਥੇ ਕੀ ਹੋ ਰਿਹਾ ਹੈ?                 | ਵਹਾਂ ਕਿਆ ਹੋ ਰਹਾ ਹੈ?               |
| 245. ਏਕਤਾ ਵਿੱਚ ਬਲ ਹੈ।                    | ਏਕਤਾ ਮੇਂ ਬਲ ਹੈ।                   |
| 246. ਜੀਵਨ ਵਿੱਚ ਸੰਤੁਸ਼ਟੀ ਵੀ ਇੱਕ ਵਰਦਾਨ ਹੈ। | ਜੀਵਨ ਮੇਂ ਸੰਤੁਸ਼ਟੀ ਭੀ ਏਕ ਵਰਦਾਨ ਹੈ। |
| 247. ਉਸ ਨੂੰ ਸਾਰਾ ਲੇਖ ਜ਼ੁਬਾਨੀ ਯਾਦ ਸੀ।     | ਉਸੇ ਸਾਰਾ ਨਿਬੰਧ ਮੈਥਿਕ ਯਾਦ ਥਾ।      |



248. ਸਾਫ਼ ਸਫ਼ਾਈ ਕਰਨਾ ਚੰਗੀ ਆਦਤ ਹੈ। ਸਾਫ਼ ਸਫ਼ਾਈ ਕਰਨਾ ਅੱਤੀ ਆਦਤ ਹੈ।  
 249. ਬੱਚਾ ਕਿਉਂ ਰੋ ਰਿਹਾ ਹੈ? ਬੱਚਾ ਕੀ ਰੋ ਰਿਹਾ ਹੈ?  
 250. ਵਾਤਾਵਰਨ ਸਾਫ਼ ਰੱਖਣਾ ਹਰ ਨਾਗਰਿਕ ਦਾ ਫਰਜ਼ ਹੈ। ਵਾਤਾਵਰਨ ਸਾਫ਼ ਰੱਖਣਾ ਹਰ ਨਾਗਰਿਕ ਦਾ ਕਰਤਵਿਯ ਹੈ।  
 251. ਰੋਗੀ ਦੀ ਹਾਲਤ ਬਿਹਤਰ ਹੋ ਰਹੀ ਹੈ। ਰੋਗੀ ਦੀ ਹਾਲਤ ਠੀਕ ਹੋ ਰਹੀ ਹੈ।  
 252. ਵਿਦਿਆ ਮਨੁੱਖ ਨੂੰ ਸੋਝੀ ਦਿੰਦੀ ਹੈ। ਵਿਦਿਆ ਵਿਅਕਤਿ ਨੂੰ ਸੁਝਾਵਾਨ ਬਣਾਉਂਦੀ ਹੈ।

Exercise 6 (Unsolved)

Translate into English:

253. ਉਹ ਟੇਢੀ ਖੀਰ ਹੈ। ਉਹ ਟੇਢੀ ਖੀਰ ਹੈ।  
 254. ਪੜ੍ਹਾਈ ਵਿੱਚ ਆਪਣਾ ਮਨ ਲਗਾਉ। ਪੜ੍ਹਾਈ ਵਿੱਚ ਆਪਣਾ ਮਨ ਲਗਾਓ।  
 255. ਕੀ ਤੁਸੀਂ ਗਰੀਬਾਂ ਦੀ ਮਦਦ ਕਰਦੇ ਹੋ? ਕੀ ਤੁਸੀਂ ਗਰੀਬਾਂ ਦੀ ਮਦਦ ਕਰਦੇ ਹੋ?  
 256. ਮੈਂ ਇਸ ਅਪਮਾਨ ਨੂੰ ਸਹਿਣ ਨਹੀਂ ਕਰ ਸਕਾਂਗਾ। ਮੈਂ ਇਸ ਅਪਮਾਨ ਨੂੰ ਸਹਿਣ ਨਹੀਂ ਕਰ ਸਕਾਂਗਾ।  
 257. ਕੀ ਹਵਾਈ ਯਾਤਰਾ ਸੁਰੱਖਿਅਤ ਹੈ? ਕੀ ਹਵਾਈ ਯਾਤਰਾ ਸੁਰੱਖਿਅਤ ਹੈ?  
 258. ਮੈਂ ਉਸਨੂੰ ਗਲੇ ਲਗਾ ਲਿਆ। ਮੈਂ ਉਸਨੂੰ ਗਲੇ ਲਗਾ ਲਿਆ।  
 259. ਉਸਦੀ ਜਬਾਨ ਇੰਨੀ ਕਿਉਂ ਚਲਦੀ ਹੈ? ਉਸਦੀ ਜਬਾਨ ਇੰਨੀ ਕਿਉਂ ਚਲਦੀ ਹੈ?  
 260. ਉਹ ਰਾਤ ਬਹੁਤ ਠੰਡੀ ਸੀ। ਉਹ ਰਾਤ ਬਹੁਤ ਠੰਡੀ ਸੀ।  
 261. ਤੁਸੀਂ ਆਪਣਾ ਭਵਿੱਖ ਖ਼ਤਰੇ ਵਿੱਚ ਪਾ ਰਹੇ ਹੋ। ਤੁਸੀਂ ਆਪਣਾ ਭਵਿੱਖ ਖ਼ਤਰੇ ਵਿੱਚ ਪਾ ਰਹੇ ਹੋ।  
 262. ਬਾਹਰ ਘੁੱਪ ਹਨੇਰਾ ਸੀ। ਬਾਹਰ ਘਨਧੋਰ ਅੱਥੇਰਾ ਸੀ।

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**The book prescribed & published by the Punjab School Education Board.**

1. (General English XI) A Panorama of Life
2. English Grammar and Composition for XI and XII

**Note: Translation will come from chapter 18 The Art of Translations in the book English Grammar and Composition for XI and XII.**

**Note: All the lessons in the above book are included in the syllabus. No part has been deleted.**

CLASS - XI

2. ਪੰਜਾਬੀ (ਲਾਜ਼ਮੀ)

ਸਮਾਂ : 3 ਘੰਟੇ

ਲਿਖਤੀ ਪੇਪਰ: 65 ਅੰਕ  
ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ: 10 ਅੰਕ  
ਕੁੱਲ :75 ਅੰਕ

ਅੰਕ ਵੰਡ ਅਤੇ ਪਾਠ-ਕ੍ਰਮ

ਲੜੀ ਨੰ:	ਪਾਠ-ਕ੍ਰਮ	ਅੰਕ
1.	ਪੰਜਾਬੀ ਲੋਕ ਸਾਹਿਤ:- ਲੋਕ-ਗੀਤ ਅਤੇ ਲੋਕ-ਕਥਾਵਾਂ	26
2.	ਅੰਗਰੇਜ਼ੀ ਤੋਂ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦ:- ਤਕਨੀਕੀ ਸ਼ਬਦਾਵਲੀ:-ਬੈਂਕ, ਰੇਲਵੇ, ਡਾਕ, ਕੰਪਿਊਟਰ ਅਤੇ ਬੀਮਾ ਸੇਵਾਵਾਂ ਨਾਲ ਸੰਬੰਧਿਤ ਵਾਕਾਂ ਵਿੱਚ ਵਰਤੋਂ	10
3.	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਲਿਖਣ ਦਾ ਹੁਨਰ:- ਅਖ਼ਬਾਰ ਦੇ ਸੰਪਾਦਕ ਨੂੰ ਪੱਤਰ, ਇਸ਼ਤਿਹਾਰ, ਸੱਦਾ ਪੱਤਰ ਅਤੇ ਪੈਰਾ ਰਚਨਾ।	19
4.	ਵਿਆਕਰਨ:-ਮੁਹਾਵਰੇ	10
ਕੁੱਲ ਅੰਕ		65

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ ਰੇਖਾ

ਪਰੀਖਿਆ ਪੱਖੋਂ ਅਧਿਆਪਕਾਂ, ਵਿਦਿਆਰਥੀਆਂ, ਪੇਪਰ ਸੈਂਟਰਾਂ ਅਤੇ ਪਰੀਖਿਅਕਾਂ ਲਈ ਵਿਸ਼ੇਸ਼ ਹਿਦਾਇਤਾਂ

ਪ੍ਰਸ਼ਨ ਨੰ: 1 ਸਮੁੱਚੇ ਪਾਠ-ਕ੍ਰਮ ਦੇ ਆਧਾਰ ਤੇ ਸੰਖੇਪ ਉੱਤਰਾਂ ਵਾਲੇ ਦੱਸ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ 1 ਅੰਕ ਹੋਵੇਗਾ। ਅੰਕਾਂ ਦੀ ਵੰਡ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਹੋਵੇਗੀ :-

(ੳ) ਪੰਜਾਬੀ ਲੋਕ-ਸਾਹਿਤ : 2 ਅੰਕ (ਬਹੁ-ਚੋਣ, ਠੀਕ/ਗ਼ਲਤ, ਖ਼ਾਲੀ ਥਾਂਵਾਂ ਜਾਂ ਇੱਕ ਦੋ ਸ਼ਬਦਾਂ ਦੇ ਉੱਤਰ ਵਾਲੇ ਪ੍ਰਸ਼ਨ)

(ਅ) ਲੋਕ-ਗੀਤ : 2 ਅੰਕ ( ਦੋ ਪ੍ਰਸ਼ਨ - ਦੋਵੇਂ ਪ੍ਰਸ਼ਨ ਨਿਰਧਾਰਿਤ ਪਾਠ-ਸਮਗਰੀ ਦੇ ਆਧਾਰ 'ਤੇ ਪੁੱਛੇ ਜਾਣਗੇ)।

(ੲ) ਲੋਕ ਕਥਾਵਾਂ : 2 ਅੰਕ ( ਦੋ ਪ੍ਰਸ਼ਨ ਪਾਤਰਾਂ ਸੰਬੰਧੀ ਪੁੱਛੇ ਜਾਣਗੇ)।

(ਸ) ਅੰਗਰੇਜ਼ੀ ਤੋਂ ਪੰਜਾਬੀ ਅਨੁਵਾਦ : 2 ਅੰਕ(ਸਿੱਧਾ ਅਰਥ ਪੁੱਛਣਾ, ਬਹੁ-ਚੋਣ, ਮਿਲਾਨ ਕਰਨਾ) ਤਕਨੀਕੀ ਸ਼ਬਦਾਵਲੀ 'ਤੇ ਆਧਾਰਿਤ ਪਾਠ ਅਤੇ ਪਾਠ ਅਭਿਆਸ ਵਿੱਚੋਂ 2 ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦਾ ਇੱਕ ਅੰਕ ਹੋਵੇਗਾ।

(ਹ) ਮੁਹਾਵਰੇ:-2 ਅੰਕ (1 ਅੰਕ ਵਰਤੋਂ ਸਥਿਤੀ ਦੱਸ ਕੇ ਢੁਕਵਾਂ ਮੁਹਾਵਰਾ ਲਿਖਣ, 1 ਅੰਕ ਮੁਹਾਵਰੇ ਦੇ ਅਰਥ ਨਾਲ ਸੰਬੰਧਿਤ ਬਹੁ-ਚੋਣੀ ਪ੍ਰਸ਼ਨ 'ਚੋਂ ਠੀਕ ਅਰਥ ਲਿਖਣ ਦਾ ਹੋਵੇਗਾ)।  
10×1=10 ਅੰਕ

ਪ੍ਰਸ਼ਨ ਨੰ: 2 ਪੰਜਾਬੀ ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚ ਲੋਕ-ਗੀਤਾਂ ਬਾਰੇ ਦਿੱਤੇ ਪਾਠ-ਅਭਿਆਸਾਂ ਦੇ ਪ੍ਰਸ਼ਨਾਂ ਵਿੱਚੋਂ ਕੋਈ 4 ਪ੍ਰਸ਼ਨ ਦੇ ਕੇ ਦੋ ਦਾ ਉੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ।  
5+5=10 ਅੰਕ

ਪ੍ਰਸ਼ਨ ਨੰ: 3 ਪੰਜਾਬੀ ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚ ਦਿੱਤੀਆਂ ਵੱਖ-ਵੱਖ ਵੰਨਗੀਆਂ ਦੀਆਂ ਲੋਕ-ਕਥਾਵਾਂ ਵਿੱਚੋਂ ਦੋ ਦੇ ਨਾਂ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਕਥਾ ਦਾ ਸਾਰ ਆਪਣੇ ਸ਼ਬਦਾਂ ਵਿੱਚ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ।  
10 ਅੰਕ

ਪ੍ਰਸ਼ਨ ਨੰ: 4 (ੳ) ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚ ਦਿੱਤੀ ਗਈ ਤਕਨੀਕੀ ਸ਼ਬਦਾਵਲੀ ਵਿੱਚੋਂ ਦਸ ਸ਼ਬਦ ਦੇ ਕੇ ਕਿਸੇ ਛੇ ਦੇ ਅਰਥ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ।  
6×1½=3 ਅੰਕ

(ਅ) ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚ ਦਿੱਤੇ ਗਏ ਬੈਂਕ, ਰੇਲਵੇ, ਡਾਕ ਅਤੇ ਬੀਮਾ-ਸੇਵਾਵਾਂ ਅਤੇ ਕੰਪਿਊਟਰ ਨਾਲ ਸੰਬੰਧਿਤ ਅੱਠ ਵਾਕ ਦੇ ਕੇ ਕੋਈ ਪੰਜ ਵਾਕਾਂ ਦਾ ਪੰਜਾਬੀ ਅਨੁਵਾਦ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ।  
5×1=5 ਅੰਕ

ਪ੍ਰਸ਼ਨ ਨੰ: 5 ਕਿਸੇ ਮਸਲੇ/ਘਟਨਾ ਸੰਬੰਧੀ ਕਿਸੇ ਅਖ਼ਬਾਰ ਦੇ ਸੰਪਾਦਕ ਨੂੰ ਪੱਤਰ ਲਿਖਣ ਲਈ ਦੋ ਵਿਸ਼ੇ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਬਾਰੇ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ।  
2+4+2=8 ਅੰਕ

- ਪ੍ਰਸ਼ਨ ਨੰ: 6      ਪੰਜਾਬੀ ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚ ਦਿੱਤੀਆਂ ਵੰਨਗੀਆਂ ਅਨੁਸਾਰ ਇੱਕ ਇਸ਼ਤਿਹਾਰ ਜਾਂ ਸੱਦਾ-ਪੱਤਰ  
ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 5 ਅੰਕ
- ਪ੍ਰਸ਼ਨ ਨੰ: 7      ਕੋਈ ਤਿੰਨ ਵਿਸ਼ੇ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਵਿਸ਼ੇ ਬਾਰੇ ਲਗ-ਪਗ 15● ਸ਼ਬਦਾਂ ਦੀ ਪੈਰਾ-ਰਚਨਾ ਕਰਨ  
ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 6 ਅੰਕ
- ਪ੍ਰਸ਼ਨ ਨੰ: 8      ਪੰਜਾਬੀ ਪਾਠ- ਪੁਸਤਕ ਵਿੱਚੋਂ ਕੋਈ ਸੱਤ ਮੁਹਾਵਰੇ ਦੇ ਕੇ ਕਿਸੇ ਚਾਰ ਨੂੰ ਵਾਕਾਂ ਵਿੱਚ ਵਰਤਣ  
ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। 4×2=8 ਅੰਕ

# ਨਿਰਧਾਰਿਤ ਪਾਠ-ਪੁਸਤਕ: ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ-11

# ਪ੍ਰਕਾਸ਼ਕ: ਪੰਜਾਬ ਸਕੂਲ ਸਿੱਖਿਆ ਬੋਰਡ

**CLASS - XI**  
**3. PUNJAB HISTORY & CULTURE**

**Time: 3 Hrs**

**Theory: 65 Marks**

**CCE: 10 Marks**

**Total: 75 Marks**

**STRUCTURE OF QUESTION PAPER**

The question paper will comprise of four sections A, B, C and D of 18 questions in total. The question paper will carry:

**A. Objective Type Questions:** This type will include Question No. 1 to 7 carrying 1 mark each with one word answer/ fill in the blank/ true or false/ multiple choice type questions. **1 × 7 = 7 Marks**

**B. Short Answer Type Questions:** This type will include 6 questions from Question No. 8 to 13 carrying 3 marks each. Answer to each question should be in about 30- 35 words. **3 × 6 = 18 Marks**

**C. Long answer Type Questions:** This type will include 5 question from Question No. 14 to 18 will carry 5 marks each with 100% internal choice. Answer to each question should be in about 80-100 words.

**5 × 5 = 25 Marks**

**D. Map Question:** There will be one section of map carrying 15 marks (10 marks for 5 places and 5 marks each for explanation)

**Note:- All units of the syllabus should be given adequate representation in the question paper.**

<b>Syllabus</b>	<b>A Objective type Questions 1 mark</b>	<b>B Short Answer type Questions 3 marks</b>	<b>C Long Answer type Questions 5 marks</b>	<b>D Map question</b>	<b>Total</b>
Part-1 Units I-XI	04	03	03	100% Internal choice	10
Part-2 Unit XII- XXII	03	03	02	5 Places ×2 =10 marks Explanation 5×1=5marks	08
No.of Questions	07	06	05	1	19
<b>Total Marks</b>	<b>07</b>	<b>18</b>	<b>25</b>	<b>15</b>	<b>65</b>

**SYLLABUS  
SECTION-A**

1. The Land of the People.
2. The Age of the Harappa Culture.
3. The Age of the Vedic Aryans.
4. From Buddha to Ashoka.
5. Invasions and Impact.



## **SECTION -B**

1. The Gupta-Vardhana Age.
2. The Turks in the Punjab.
3. Education and Literature.
4. Art and Architecture.
5. The Siddhas and the Sufis.

## **SECTION-C**

### **MAP QUESTION TOPICS**

1. Harappa Culture
2. Ashoka Dhama- Important Places
3. The Gupta-Vardhana Age- Places
4. Any Five Historical Places

**CLASS -XI****4. ENVIRONMENT EDUCATION****Time: 2 Hrs****Theory Marks: 45****CCE Marks: 05****Total Marks: 50****STRUCTURE OF QUESTION PAPER (THEORY)**

1. There will be one theory paper comprising of 17 questions. All questions will be compulsory.
2. Question No. 1-5 are very short answer type question carrying 1 mark each. Answer to each question will be in one line or few words only.
3. Question No. 6-10 are short answer type questions carrying 2 marks each. Answer to each question will be in 20-30 words.
4. Question No. 11-15 are long/medium answer type question carrying 4 marks each. Answer to each question will be in 50-60 words.
5. Question No. 16 and 17 are long answer type question carrying 5 marks each. Answer to these questions will be in 80-100 words.
6. In Question No 16 and 17 there will be 100 % internal choice.
7. There will be no objective type question like yes/ No, tick/ cross, fill in the blanks, multiple choice, true/ false etc.
8. The Question paper should be strictly from the prescribed syllabus based on above mentioned guidelines.

**UNIT WISE DISTRIBUTION OF MARKS**

<b>Unit</b>	<b>1 Mark questions</b>	<b>2 Mark questions</b>	<b>4 Mark questions</b>	<b>5 Mark questions</b>
Unit I Man and Environment	1	1	1	1 or 1
Unit II Environment and Development	1	1	1	1
Unit III Environmental Pollution and Global issues	1	1	1	1 or 1
Unit IV Energy	1	1	1	1
Unit V Safe work Environment and Occupational Hazards	1	1	1	---
<b>Total Maks</b>	<b>5 marks</b>	<b>10 marks</b>	<b>20 marks</b>	<b>10 marks</b>

**INSTRUCTION FOR PAPER SETTER**

1. There will be 17 questions in theory paper.
2. Questions No. 1-5 are of 1 mark each and there should be one question from each unit.
3. Question 6-10 are of 2 marks each and there should be one question from each unit.
4. Question 11-15 are of 4 marks each and there should be one question from each unit.
5. Question 16 will be of 5 marks and to be set from unit I and choice question should be set from unit II.
6. Question 17 will be of 5 marks and to be set from unit III and choice Question should be set from unit IV.

## **SYLLABUS**

### **Unit- I Man and Environment**

#### **1. Environment**

- Dimensions of Environment- physical, biological and social.
- Human being as rational and social partner in environmental actions.
- Society and environment in India: Indian traditions, customs and culture in past and present.

#### **2. Population and Environment**

- Demography, causes of increase in population and its ill effects on environment, urbanization.

#### **3. Impact of human activities on Environment**

- Environmental problems of urban and rural areas.
- Natural resources and their depletion
- Stress on civic amenities, supply of water and electricity, waste disposal, transport, health services.
- Vehicular emissions.
- Urbanisation- land use, housing, migrating and floating population.

### **Unit-II Envirtonment and Development**

#### **4. Economic and Social Development**

- Economic and social needs as basic considerations for development.
- Agriculture and industry as major sector of development.
- Social factors affecting development- poverty, affluence, education, employment, child marriage and child labour, human health- HIV/AIDS, social culture and ethical values.

#### **5. Impact of Liberalization and Globalization**

- Impact of liberalization and globalization- agriculture and industries, dislocation of manpower and unemployment implications for social harmony.

#### **6. Role of Society in Development and Environment**

- Role of society in development and environment- public awareness through education, eco- clubs, population education programmes and campaigns, public participation in decision making.

### **Unit-III Environmental Pollution and Global Issues**

#### **7. Environmental Pollution**

- Air water (fresh and marine), soil pollution- sources and consequences.
- Noise and radiation pollution- sources and consequences.
- Solid, liquid and gaseous pollution.

#### **8. Pollution and Diseases**

- Handling of hazardous material, process and management of hazardous wastes.
- Pollution related diseases.

- Strategies for reducing pollution and improving the environment.

## **9. Global Issues and Improvement of Environment**

- Ozone Layer depletion and its effects.
- Greenhouse effect, global warming, climate changes and their effects on human society, agriculture plants and animals.

## **10. Disaster**

- Disaster- natural (earthquakes, droughts, floods, cyclones, landslides) and man made (technological and industrial), their impact on the environment, prevention, control and mitigation.

## **Unit- IV Energy**

### **11. Energy Consumption**

- Changing global pattern of energy consumption -from ancient to modern times.
- Energy consumption as a measure of quality of life.
- Rising demand for energy gap between demand and supply (Indian context.)

### **12. Conventional Sources of Energy**

- Conventional energy sources- fossil and firewood, potential (India context) and limitations of each source, methods of harnessing energy and environment consequences of their use.

### **13. Non- conventional Source of Energy**

- Non Conventional energy sources- type of non -conventional sources( bio- mass, solar, wind, ocean, hydel, geothermal, nuclear),potential( Indian context) and limitations of each source, methods of harnessing and their environmental consequences, need to promote non- conventional energy sources.

### **14. Conservation of Energy**

- Conservation of energy sources- efficiency in production, transportation and utilization of energy.
- Future sources of energy- hydrogen, alcohol, fuel cells.

## **Unit V Safe work Environment and Occupational Hazards**

### **15. Safe Work Environment**

- Safe work environment- adequate light, ventilation, cleanliness, good house keeping.

### **16. Safety Laws, Accidents and First- Aid**

- Safety awareness management- safety precautions- home and work (laboratory, workshop, work site), safe handling of equipment and material.
- Occupational hazards- physical, chemical, mechanical, electrical, biological, radiational and psychological.
- Accidents and major hazards in industries and occupations- fire, explosion, toxic release.
- First aid measures.
- Laws and regulations related to occupational health and safety.

### **17\*. Drugs- ill Effects Part-I**

- Importance of health, Drug-addiction, symptoms (Material upload on website)

- Drugs of abuse and their health consequences, academic and occupational consequences, consequences for family, social, legal and criminal consequences.
- Prevention of Drug , Government initiatives, the narcotic drug and psychotropic substances act-1985, offences and penalties.

**\* Chapter 17 is added in the syllabus as a compulsory topic, Matter is available on the Board's website [www.pseb.ac.in](http://www.pseb.ac.in).**

### **CCE**

#### **Instructions for CCE (05 marks)**

Teachers teaching the subject of Environment Education to students will evaluate them throughout the year for the work done by the student in and around the school campus regarding environmental cleanliness, planting trees, developing herbal gardens, growing ornamental plants, medicinal plants and participating in environmental activities which are celebrated in the school. Student will also keep the record in a project file for two different projects carried by him/her. So over all evaluation of the student will be based on his/her performance and contribution to environment.

**ਗਿਆਰਵੀਂ ਸ਼੍ਰੇਣੀ**  
**5. ਕੰਪਿਊਟਰ ਸਾਇੰਸ**  
**(ਲਿਖਤੀ ਪ੍ਰੀਖਿਆ)**

ਸਮਾਂ : 3 ਘੰਟੇ

ਲਿਖਤੀ : 50 ਅੰਕ  
ਸੀ.ਸੀ.ਈ. : 10 ਅੰਕ  
ਪ੍ਰਯੋਗੀ : 40 ਅੰਕ  
ਕੁੱਲ : 100 ਅੰਕ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਚਾਰ ਭਾਗਾਂ (ਭਾਗ ਓ, ਭਾਗ ਅ, ਭਾਗ ਏ ਅਤੇ ਭਾਗ ਸ) ਵਿੱਚ ਵੰਡਿਆ ਹੋਵੇਗਾ।
2. ਭਾਗ ਓ ਆਬਜੈਕਟਿਵ ਟਾਈਪ ਹੋਵੇਗਾ ਜਿਸ ਵਿੱਚ 1 ਤੋਂ 6 ਤੱਕ 1-1 ਅੰਕ ਦੇ 6 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ।
3. ਭਾਗ ਅ ਵਿੱਚ ਪ੍ਰਸ਼ਨ ਨੰ 7 ਤੋਂ 12 ਤੱਕ 2-2 ਅੰਕ ਦੇ 6 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ।
4. ਭਾਗ ਏ ਵਿੱਚ ਪ੍ਰਸ਼ਨ ਨੰ 13 ਤੋਂ 17 ਤੱਕ 4-4 ਅੰਕ ਦੇ 5 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ।
5. ਭਾਗ ਸ ਵਿੱਚ ਪ੍ਰਸ਼ਨ ਨੰ 18 ਤੋਂ 19 ਤੱਕ 6-6 ਅੰਕ ਦੇ 2 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ।
6. ਭਾਗ ਓ, ਅ, ਏ ਅਤੇ ਭਾਗ ਸ ਦੇ ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਜ਼ਰੂਰੀ ਹੋਣਗੇ। ਭਾਗ ਏ ਅਤੇ ਸ ਵਿੱਚ ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਦੋ ਜਾਂ ਦੋ ਤੋਂ ਵੱਧ ਭਾਗ ਵੀ ਹੋ ਸਕਦੇ ਹਨ। ਭਾਗ ਸ ਵਿੱਚ ਅੰਦਰੂਨੀ ਛੋਟ ਹੋਵੇਗੀ।

ਨੰ	ਲੜੀ ਅਧਿਆਇ ਦਾ ਨਾਂ	ਕੁੱਲ ਅੰਕ	1 ਅੰਕ ਵਾਲੇ ਪ੍ਰਸ਼ਨ	2 ਅੰਕ ਵਾਲੇ ਪ੍ਰਸ਼ਨ	4 ਅੰਕ ਵਾਲੇ ਪ੍ਰਸ਼ਨ	6 ਅੰਕ ਵਾਲੇ ਪ੍ਰਸ਼ਨ
1.	ਦਸਵੀਂ ਕਲਾਸ ਦੀ ਦੁਹਰਾਈ	3	1	1		
2.	“ਸੀ” ਭਾਸ਼ਾ ਵਿੱਚ ਪ੍ਰੋਗਰਾਮਿੰਗ ਲਈ ਭੂਮਿਕਾ	6		1	1	
3.	ਕਾਂਸਟੈਂਟਸ, ਵੇਰੀਏਬਲਜ਼ ਅਤੇ ਡਾਟਾ ਟਾਈਪਸ	7	1	1	1	
4.	ਓਪਰੇਟਰਸ ਅਤੇ ਐਕਸਪ੍ਰੈਸ਼ਨ	7	1	1	1	
5.	ਕੰਟਰੋਲ ਫਲੋ (ਭਾਗ 1)	7	1			1
6.	ਕੰਟਰੋਲ ਫਲੋ (ਭਾਗ 2)	6		1	1	
7.	ਐਰੇਸ (ਭਾਗ 1)	3	1	1		
8.	ਐਰੇਸ (ਭਾਗ 2)	4			1	
9.	ਡੈਸਕਟਾਪ ਪਬਲਿਸ਼ਿੰਗ	7	1			1
	ਕੁੱਲ ਜੋੜ	50	6	12	20	12

**1. ਦਸਵੀਂ ਕਲਾਸ ਦੀ ਦੁਹਰਾਈ**

ਸਾਫਟਵੇਅਰ ਸੰਕਲਪ

ਸਿਸਟਮ ਸਾਫਟਵੇਅਰ : ਐਪਰੇਟਿੰਗ ਸਿਸਟਮ, ਯੂਟਿਲਿਟੀ ਸਾਫਟਵੇਅਰ, ਐਪਲੀਕੇਸ਼ਨ ਸਾਫਟਵੇਅਰ ਐਕਸਲ: ਡਾਟਾ ਟਾਈਪ ਫਾਰਮੂਲਾ ਅਤੇ ਫੰਕਸ਼ਨਜ਼, ਐਕਸਲ ਅਤੇ ਫੀਈਨੈਂਸ਼ਿਅਲ ਡਾਟਾ ਐਚ.ਟੀ.ਐਮ.ਐਲ. ਦੀ ਦੁਹਰਾਈ (REVIEW ON HTML): ਵੈੱਬ ਪੇਜਿੰਗ, ਐਚ.ਟੀ.ਐਮ.ਐਲ. (HTML) ਫਾਈਲ, ਮਾਈਕਰੋਸੋਫਟ ਅਸੈਸ : ਡਾਟਾ ਸੋਧਨਾ, ਅਸੈਸ ਡਾਟਾਬੇਸ ਦੇ ਆਬਜੈਕਟਸ (ਟੇਬਲ, ਕੁਐਰੀਜ਼, ਫਾਰਮ, ਰਿਪੋਰਟ, ਪੇਜ ਪ੍ਰੋਗਰਾਮਿੰਗ ਕੰਨਸੈਪਟਸ ਦੀ ਦੁਹਰਾਈ (Review on programming concepts) : ਪ੍ਰੋਗਰਾਮ ਡਿਵੈਲਪਮੈਂਟ ਦੇ ਵੱਖ-ਵੱਖ ਪੜਾਅ, ਪ੍ਰੋਗਰਾਮਿੰਗ ਭਾਸ਼ਾ ਦੇ ਐਲੀਮੈਂਟ

**2. “ਸੀ” ਭਾਸ਼ਾ ਵਿੱਚ ਪ੍ਰੋਗਰਾਮਿੰਗ ਲਈ ਭੂਮਿਕਾ**

ਭੂਮਿਕਾ

ਸੀ (C) ਭਾਸ਼ਾ ਦੇ ਵਿਸ਼ੇਸ਼ ਲੱਛਣ

ਸੀ (C) ਚਿੰਨ੍ਹ ਸੈੱਟ : ਐਸਕੇਪ ਚਿੰਨ੍ਹ, ਵਾਈਟ ਸਪੇਸ ਕਰੈਕਟਰ

ਸੀ(C) ਪ੍ਰੋਗਰਾਮ ਦਾ ਸਟਰਕਚਰ: ਹੈਡਰ ਫਾਈਲਜ਼, ਪ੍ਰੀ ਪ੍ਰੋਸੈਸਰ ਸਟੇਟਮੈਂਟ/ਨਿਰਦੇਸ਼, ਗਲੋਬਲ ਡਿਕਲੇਰੇਸ਼ਨਸ

ਸੀ (C) ਪ੍ਰੋਗਰਾਮ ਦਾ ਕੰਪਾਈਲ ਅਤੇ ਲਾਗੂ ਕਰਨ

ਐਡੀਟਰ ਦੀ ਵਰਤੋਂ

ਫੰਕਸ਼ਨ: ਬਿਲਟ ਇਨ ਫੰਕਸ਼ਨਸ, ਯੂਜ਼ਰ ਪਰਭਾਸ਼ਤ ਫੰਕਸ਼ਨਸ ਫਾਰਮੇਟਡ ਆਈ/ਓ ਫੰਕਸ਼ਨ : ਪ੍ਰਿੰਟਐਫ

ਫੰਕਸ਼ਨ (printf function), ਸਕੈਨਐਫ ਫੰਕਸ਼ਨ (scanf function) ਸੀ (C) ਪ੍ਰੋਗਰਾਮਿੰਗ ਨਾਲ

ਸ਼ੁਰੂਆਤ ਕਰਨੀ : ਟਰਬੋ ਸੀ ਨੂੰ ਸਥਾਪਿਤ ਕਰਨਾ, ਪ੍ਰੋਗਰਾਮ ਦੀ ਕੰਪਾਇਲਿੰਗ ਅਤੇ ਐਗਜ਼ੀਕਿਊਟਿੰਗ



3. **ਕਾਂਸਟੈਂਟਸ, ਵੈਰੀਏਬਲਜ਼ ਅਤੇ ਡਾਟਾ ਟਾਈਪਸ**  
 ਭੂਮਿਕਾ  
 ਕਾਂਸਟੈਂਟਸ/ਸ਼ਾਬਦਿਕ : ਸੀ (C) ਕਾਂਸਟੈਂਟ ਦੀਆਂ ਟਾਈਪਸ  
 ਸੀ (C) ਵੈਰੀਏਬਲਜ਼/ਆਈਡੈਂਟੀਫਾਈਰ ਦੀਆਂ ਟਾਈਪਸ : ਡਿਲੀਮੀਟਰ, ਵੈਰੀਏਬਲਜ਼ ਦਾ ਡਿਕਲੇਰੇਸ਼ਨ  
 ਇਨਿਸ਼ੀਅਲਾਈਜ਼ੇਸ਼ਨ  
 ਵੈਰੀਏਬਲ ਵਿਚ ਕਾਂਸਟੈਂਟ ਸਟੋਰ ਕਰਨਾ  
 ਡਾਟਾ ਟਾਈਪਸ : ਬਿਲਟ ਇਨ ਡਾਟਾ ਟਾਈਪਸ (ਇੰਟੀਜਰ, ਫਲੋਟਿੰਗ ਪੁਆਇੰਟ - ਡਾਟਾ ਟਾਈਪ ,  
 ਕਰੈਕਟਰ ਡਾਟਾ ਟਾਈਪ, ਡਬਲ, ਵੋਆਇਡ ਡਾਟਾ ਟਾਈਪ),, ਮੇਨ ਫੰਕਸ਼ਨ ਹੈਡਰ ਟੋਕਨਜ਼  
 (ਆਈਡੈਂਟੀਫਾਇਰਜ਼), ਕੀ-ਵਰਡਜ਼, ਕਾਂਸਟੈਂਟ, ਓਪਰੇਟਰਸ) : ਕੀ ਵਰਡਜ਼ ਅਤੇ ਆਈਡੈਂਟੀਫਾਇਰਜ਼,  
 ਟਾਈਪ ਮੋਡੀਫਾਇਰ ਜਾਂ ਕੁਆਲੀਫਾਈਰ
4. **ਓਪਰੇਟਰਸ ਅਤੇ ਐਕਸਪ੍ਰੈਸ਼ਨ**  
 ਭੂਮਿਕਾ  
 ਓਪਰੇਟਰਸ ਅਤੇ ਐਕਸਪ੍ਰੈਸ਼ਨ : ਐਕਸਪ੍ਰੈਸ਼ਨ, ਬਾਇਨਰੀ ਓਪਰੇਟਰ, ਐਪਰਸ਼ਨਜ਼ ਅਤੇ ਹਿਰੈਚੀਕਲ ਆਰਡਰ  
 (Operations & Hierarchical order) ਰਿਲੇਸ਼ਨਲ ਅਤੇ ਲੌਜੀਕਲ ਓਪਰੇਟਰ: ਲੌਜੀਕਲ ਓਪਰੇਟਰ,  
 ਅਸਾਈਨਮੈਂਟ ਓਪਰੇਟਰ, ਇਨਕਰੀਮੈਂਟ ਅਤੇ ਡਿਕਰੀਮੈਂਟ ਓਪਰੇਟਰਸ, ਟਰਨਰੀ ਓਪਰੇਟਰ, ਕੌਮਾ ਓਪਰੇਟਰ,  
 ਸਾਈਡਆਫ() ਓਪਰੇਟਰ, ਬਿਟਵਾਈਜ਼ ਓਪਰੇਟਰ
5. **ਕੰਟਰੋਲ ਫਲੋ (ਭਾਗ 1)**  
 ਭੂਮਿਕਾ  
 ਡਿਸਿਜ਼ਨ ਮੇਕਿੰਗ ਸਟੇਟਮੈਂਟ : ਇਫ ਸਟੇਟਮੈਂਟ (if statement), ਇਫ ਐਲਸ ਸਟੇਟਮੈਂਟ (if else)  
 ਸਵਿਚ ਸਟੇਟਮੈਂਟ  
 ਬ੍ਰੇਕ ਸਟੇਟਮੈਂਟ  
 ਨਿਰੰਤਰ ਸਟੇਟਮੈਂਟ
6. **ਕੰਟਰੋਲ ਫਲੋ (ਭਾਗ 2)**  
 ਭੂਮਿਕਾ  
 ਕੰਟਰੋਲ ਲੂਪ ਸਟਰਕਚਰ : ਵਾਈਲ ਸਟੇਟਮੈਂਟ (While statement), ਡੂ ਵਾਈਲ (do while),  
 ਫਾਰ ਸਟੇਟਮੈਂਟ ਲੂਪ (For Statement loop)
7. **ਐਰੇਸ (ਭਾਗ 1)**  
 ਭੂਮਿਕਾ  
 ਐਰੇ ਦੀ ਡਿਕਲੇਅਰੇਸ਼ਨ ਅਤੇ ਇਨਿਸ਼ੀਅਲਾਈਜ਼ੇਸ਼ਨ : ਇਨਿਸ਼ੀਅਲਾਈਜ਼ਿੰਗ ਐਰੇਸ  
 ਕੁਝ ਵਿਸ਼ੇਸ਼ ਨਿਯਮ: ਐਰੇ ਵਿਚ ਡਾਟਾ ਪ੍ਰਵੇਸ਼ ਕਰਨਾ,  
 ਐਰੇ ਕਾਪੀ ਕਰਨੀ  
 ਐਰੇ ਦੇ ਮੁੱਲਾਂ ਦੀ ਪਹੁੰਚ ਕਰਨੀ  
 ਐਰੇ ਐਲੀਮੈਂਟਸ ਦਾ ਪ੍ਰਬੰਧਨ
8. **ਐਰੇਸ (ਭਾਗ 2)**  
 ਭੂਮਿਕਾ  
 ਦੋ ਡਾਈਮੈਨਸ਼ਨਲ ਐਰੇ : ਦੋ ਡਾਈਮੈਨਸ਼ਨਲ ਐਰੇ ਦੀ ਡਿਕਲੇਰੇਸ਼ਨ, ਦੋ ਡਾਈਮੈਨਸ਼ਨਲ ਐਰੇ ਦੀ ਬਣਤਰ, ਦੋ  
 ਡਾਈਮੈਨਸ਼ਨਲ ਐਰੇ ਐਲੀਮੈਂਟਸ ਦਾ ਇਨਿਸ਼ੀਅਲਾਈਜ਼ੇਸ਼ਨ, ਦੋ ਡਾਈਮੈਨਸ਼ਨਲ ਐਰੇ ਸਟੇਟਮੈਂਟ ਦਾ  
 ਇਨਿਸ਼ੀਅਲਾਈਜ਼ੇਸ਼ਨ ਮੈਮਰੀ ਵਿਚ ਦੋ ਡਾਈਮੈਨਸ਼ਨਲ ਐਰੇ ਐਲੀਮੈਂਟਸ ਮਲਟੀ  
 ਆਇਮੈਨਸ਼ਨਲ ਐਰੇਸ - ਕੈਰ ਟਾਈਪ: ਮਲਟੀ ਆਇਮੈਨਸ਼ਨਲ ਐਰੇਸ ਦੇ ਐਲੀਮੈਂਟਸ ਤੱਕ ਪਹੁੰਚ, ਕੈਰ  
 ਟਾਈਪ ਮਲਟੀ ਡਾਇਮੈਨਸ਼ਨਲ ਐਰੇ ਦਾ ਇਨਿਸ਼ੀਅਲਾਈਜ਼ੇਸ਼ਨ, ਕੈਰ ਵਰਡ ਪ੍ਰੋਸੈਸਿੰਗ ਦੇ ਦੋ ਡਾਇਮੈਨਸ਼ਨਲ  
 ਐਰੇ ਇਕ-ਕੈਰ ਟਾਈਪ ਇਨਪੁੱਟ/ਆਊਟਪੁੱਟ  
 # ਡੀਫਾਈਨ ਡਾਇਰੈਕਟਿਵ (# define directive)
9. **ਡੈਸਕਟਾਪ ਪਬਲਿਸ਼ਿੰਗ**  
 ਡੈਸਕਟਾਪ ਪਬਲਿਸ਼ਿੰਗ ਬਾਰੇ ਜਾਣਕਾਰੀ  
 ਡਾਕੂਮੈਂਟਸ ਨੂੰ ਪ੍ਰਿੰਟ ਕਰਨਾ  
 ਪ੍ਰਿੰਟਿੰਗ ਦੇ ਤਰੀਕੇ ਆਫਸੈਟ ਪ੍ਰਿੰਟਿੰਗ, ਲੇਜ਼ਰ ਪ੍ਰਿੰਟਿੰਗ  
 ਫੋਂਟਸ  
 ਫਰੇਮ

ਪੇਜ ਲੇਆਊਟ  
ਡੈਸਕਟਾਪ ਪਬਲੀਸ਼ਿੰਗ ਅਤੇ ਵਰਡਪ੍ਰੋਸੈਸਰ ਵਿਚ ਅੰਤਰ  
ਡਾਕੂਮੈਂਟ ਪਲੈਨਿੰਗ  
ਮੁੱਖ ਸੂਚਨਾ ਨੂੰ ਖਾਸ ਤੌਰ ਤੇ ਦਿਖਾਇਆ ਜਾਣਾ : ਸਟਾਈਲ, ਮਾਰਜਨ, ਫੁਟਰ, ਫੋਂਟ

### ਕੰਪਿਊਟਰ ਸਾਇੰਸ ( ਗਿਆਰਵੀਂ ਸ਼੍ਰੇਣੀ) ਅਗਵਾਈ ਲੀਹਾਂ (ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ)

ਸਮਾਂ-3 ਘੰਟੇ

ਅੰਕ -40

ਪ੍ਰੀਖਿਆ ਲਈ ਅੰਕ ਵੰਡ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਹੋਵੇਗੀ:

- |             |               |    |
|-------------|---------------|----|
| ਸੈਕਸ਼ਨ - ਏ  | ਵਾਇਵਾ- ਵੋਸ    | 10 |
| ਸੈਕਸ਼ਨ - ਬੀ | ਰਿਕਾਰਡ ਫਾਇਲ   | 10 |
| ਸੈਕਸ਼ਨ - ਸੀ | ਛੋਟੇ ਪ੍ਰੋਗਰਾਮ | 20 |
1. ਸੈਕਸ਼ਨ - ਏ ਵਿੱਚ ਪ੍ਰੀਖਿਆਰਥੀ ਤੋਂ ਪਾਠ ਕ੍ਰਮ ਵਿੱਚੋਂ ਪੰਜ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਦੇ ਦੋ ਅੰਕ ਦਾ ਹੋਵੇਗਾ। ਇਹ ਪ੍ਰਸ਼ਨ ਓਬਜੈਕਟਿਵ ਟਾਈਪ ਜਾਂ ਵਿਆਖਿਆ ਦੱਸਣੀ ਜਾਂ ਕੰਪਿਊਟਰ ਦੇ ਵੱਖ ਵੱਖ ਹਿੱਸਿਆਂ ਅਤੇ ਇਸ ਨਾਲ ਜੁੜੇ ਸਹਾਇਕਾਂ ਦੇ ਬਹੁਤ ਛੋਟੇ ਅਭਿਆਸ ਹੋਣਗੇ। 1×10=10 ਅੰਕ
  2. ਸੈਕਸ਼ਨ - ਬੀ ਵਿੱਚ ਪ੍ਰੀਖਿਆਰਥੀ ਦਾ ਸਲਾਨਾ ਰਿਕਾਰਡ ਚੈਕ ਕੀਤਾ ਜਾਵੇਗਾ। 10 ਅੰਕ
  3. ਸੈਕਸ਼ਨ - ਸੀ ਵਿੱਚ ਪੰਜ ਪ੍ਰਸ਼ਨ /ਪ੍ਰੋਗਰਾਮ ਸੈੱਟ ਕੀਤੇ ਜਾਣਗੇ ਜਿਨ੍ਹਾਂ ਵਿੱਚੋਂ ਪ੍ਰੀਖਿਆਰਥੀ ਨੂੰ ਚਾਰ ਪ੍ਰੋਗਰਾਮ / ਪ੍ਰਸ਼ਨ ਕਰਨ ਦੀ ਖੁੱਲ੍ਹ ਹੋਵੇਗੀ। ਹਰ ਪ੍ਰੋਗਰਾਮ/ਪ੍ਰਸ਼ਨ ਪੰਜ ਪੰਜ ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ, ਹਰੇਕ ਪ੍ਰੋਗਰਾਮ / ਪ੍ਰਸ਼ਨ ਲਈ ਅੰਦਰੂਨੀ ਅੰਕ ਵੰਡ ਪੇਪਰ ਸੈੱਟਰ ਕਰਕੇ ਦੇਵੇਗਾ। 4×5=20 ਅੰਕ
1. **ਦੁਹਰਾਈ**  
ਐਕਸਲ  
ਐਚ.ਟੀ.ਐਮ.ਐਲ.  
ਮਾਈਕਰੋਸੋਫਟ ਅਸੈਸ : ਡਾਟਾ ਸੋਧਨਾ, ਅਸੈਸ ਡਾਟਾਬੇਸ ਦੇ ਆਬਜੈਕਟ
  2. **"ਸੀ" ਪ੍ਰੋਗਰਾਮ**  
ਸਟਰਕਚਰ: ਗਲੋਬਲ ਡਿਕਲੇਰੇਸ਼ਨਸ, ਸੀ (C) ਪ੍ਰੋਗਰਾਮ ਦਾ ਕੰਪਾਈਲ ਅਤੇ ਲਾਗੂ ਕਰਨ ਐਡੀਟਰ ਦੀ ਵਰਤੋਂ।  
ਫੰਕਸ਼ਨ: ਬਿਲਟ ਇਨ ਫੰਕਸ਼ਨਸ, ਯੂਜ਼ਰ ਪਰਭਾਸ਼ਤ ਫੰਕਸ਼ਨਸ  
ਫਾਰਮੇਟਡ ਆਈ/ਓ ਫੰਕਸ਼ਨ, ਪ੍ਰੋਗਰਾਮਿੰਗ ਨਾਲ ਸ਼ੁਰੂਆਤ ਕਰਨੀ : ਟਰਬੋ ਸੀ ਨੂੰ ਸਥਾਪਿਤ ਕਰਨਾ, ਪ੍ਰੋਗਰਾਮ ਦੀ ਕੰਪਾਇਲਿੰਗ ਅਤੇ ਐਗਜ਼ੀਕਿਊਟਿੰਗ, ਇੰਸਟਾਲੇਸ਼ਨ, ਓਪਰੇਟਰ
  3. **ਕੰਟਰੋਲ ਫਲੋ (ਭਾਗ 1)**  
ਡਿਸਿਜ਼ਨ ਮੇਕਿੰਗ ਸਟੇਟਮੈਂਟ : ਇਫ ਸਟੇਟਮੈਂਟ(if statement), ਇਫ ਐਲਸ ਸਟੇਟਮੈਂਟ (if else)  
ਸਵਿਚ ਸਟੇਟਮੈਂਟ  
ਬ੍ਰੇਕ ਸਟੇਟਮੈਂਟ  
ਨਿਰੰਤਰ ਸਟੇਟਮੈਂਟ !
  4. **ਕੰਟਰੋਲ ਫਲੋ (ਭਾਗ 2)**  
ਕੰਟਰੋਲ ਲੂਪ ਸਟਰਕਚਰ : ਵਾਈਲ ਸਟੇਟਮੈਂਟ (While statement), ਡੂ ਵਾਈਲ (do while),  
ਫਾਰ ਸਟੇਟਮੈਂਟ ਲੂਪ (For Statement loop)
  5. **ਐਰੇਸ (ਭਾਗ 1)**  
ਐਰੇ ਵਿਚ ਡਾਟਾ ਪ੍ਰਵੇਸ਼ ਕਰਨਾ  
ਐਰੇ ਕਾਪੀ ਕਰਨੀ  
ਐਰੇ ਦੇ ਮੁੱਲਾਂ ਦੀ ਪਹੁੰਚ ਕਰਨੀ  
ਐਰੇ ਐਲੀਮੈਂਟਸ ਦਾ ਪ੍ਰਬੰਧਨ : ਐਲੀਮੈਂਟਸ ਦਾ ਜੋੜ, ਐਲੀਮੈਂਟਸ ਦਾ ਗੁਣਾਕ-ਮੁੱਲ, ਐਲੀਮੈਂਟਸ ਦਾ ਪ੍ਰੋਡਕਟ, ਐਲੀਮੈਂਟਸ ਦਾ ਔਸਤਨ, ਓਚਤਮ ਅਤੇ ਨਿਊਨਤਮ ਅੰਕ ਲੱਭਣਾ
  6. **ਐਰੇਸ (ਭਾਗ 2)**  
ਦੋ ਡਾਈਮੈਨਸ਼ਨਲ ਐਰੇ ਦੀ ਬਣਤਰ ਅਤੇ ਇਨੀਸ਼ੀਅਲਾਈਜ਼ੇਸ਼ਨ  
ਮਲਟੀ ਡਾਈਮੈਨਸ਼ਨਲ ਐਰੇਸ : ਐਲੀਮੈਂਟਸ , ਇਨੀਸ਼ੀਅਲਾਈਜ਼ੇਸ਼ਨ, ਦੋ ਡਾਈਮੈਨਸ਼ਨਲ ਐਰੇ,  
ਇਕ-ਕੋਰ ਟਾਈਪ ਇਨਪੁੱਟ/ ਆਊਟਪੁੱਟ

7. **ਡੈਸਕਟਾਪ ਪਬਲਿਸ਼ਿੰਗ**

ਡਾਕੂਮੈਂਟਸ ਨੂੰ ਪ੍ਰਿੰਟ ਕਰਨਾ

ਪ੍ਰਿੰਟਿੰਗ ਦੇ ਤਰੀਕੇ : ਆਫਸੈਟ ਪ੍ਰਿੰਟਿੰਗ, ਫੁਟਰ ਪ੍ਰਿੰਟਿੰਗ

ਫੋਟੋਸ

ਫਰੇਮ

ਪੇਜ ਲੇਆਊਟ

ਡਾਕੂਮੈਂਟ ਪਲੈਨਿੰਗ

ਮੁੱਖ ਸੂਚਨਾ ਨੂੰ ਖਾਸ ਤੌਰ ਤੇ ਦਿਖਾਇਆ ਜਾਣਾ : ਸਟਾਈਲ, ਮਾਰਜਨ, ਫੁਟਰ, ਫੋਟੋ

**CLASS - XI**  
**6. ਪੰਜਾਬੀ (ਚੋਣਵਾਂ ਵਿਸ਼ਾ)**

ਸਮਾਂ: 3 ਘੰਟੇ

ਲਿਖਤੀ ਪੇਪਰ: 90 ਅੰਕ  
ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ: 10 ਅੰਕ  
ਕੁੱਲ : 100 ਅੰਕ

**ਪਾਠ-ਕ੍ਰਮ ਅਤੇ ਅੰਕ-ਵੰਡ**

ਲੜੀ ਨੰ:	ਪਾਠ-ਕ੍ਰਮ	ਅੰਕ
1.	ਪੰਜਾਬੀ-ਕਾਵਿ:- ਆਧੁਨਿਕ-ਕਾਵਿ	39
2.	ਪੰਜਾਬੀ ਵਾਰਤਕ :- ਸਫ਼ਰਨਾਮਾ-ਅੰਸ਼	27
3.	ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ	12
4.	ਪੰਜਾਬੀ ਦੀਆਂ ਉਪਭਾਸ਼ਾਵਾਂ ਦੀ ਸ਼ਬਦਾਵਲੀ	12
<b>ਕੁੱਲ ਅੰਕ</b>		<b>90</b>

**ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ ਰੇਖਾ**

ਅਧਿਆਪਕਾਂ, ਵਿਦਿਆਰਥੀਆਂ, ਪੇਪਰ ਸੈਂਟਰਾਂ ਅਤੇ ਪਰੀਖਿਅਕਾਂ ਲਈ ਵਿਸ਼ੇਸ਼ ਹਿਦਾਇਤਾਂ।

**ਪ੍ਰਸ਼ਨ ਨੰ:1** ਸਮੁੱਚੇ ਪਾਠ-ਕ੍ਰਮ ਦੇ ਆਧਾਰ 'ਤੇ 10 ਅੰਕਾਂ ਦੇ ਵਸਤੂ-ਨਿਸ਼ਠ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਇਹ ਪ੍ਰਸ਼ਨ ਬਹੁ-ਚੋਣ, ਠੀਕ/ਗਲਤ, ਖਾਲੀ ਥਾਂਵਾਂ ਜਾਂ ਇੱਕ ਜਾਂ ਦੋ ਸ਼ਬਦਾਂ ਵਿੱਚ ਉੱਤਰ ਦੇਣ ਵਾਲੇ ਹੋਣਗੇ। ਅੰਕਾਂ ਦੀ ਵੰਡ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਹੋਵੇਗੀ :-

**ਆਧੁਨਿਕ ਪੰਜਾਬੀ- ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ) ਭਾਗ-1**

- (ੳ) **ਆਧੁਨਿਕ-ਕਾਵਿ:** 4 ਅੰਕ (ਦੋ ਪ੍ਰਸ਼ਨ ਰਚਨਾ ਦਾ ਕਵੀ ਜਾਂ ਕਵੀ ਦੀ ਰਚਨਾ ਨਾਲ਼ ਸੰਬੰਧਿਤ, ਦੋ ਪ੍ਰਸ਼ਨ ਪਾਠ- ਸਮਗਰੀ 'ਤੇ ਆਧਾਰਿਤ ਹੋਣਗੇ)।
- (ਅ) **ਅੱਖੀਂ ਡਿੱਠੀ ਦੁਨੀਆਂ:** 2 ਅੰਕ (ਇੱਕ ਪ੍ਰਸ਼ਨ ਸਫ਼ਰਨਾਮਾ-ਅੰਸ਼ ਦੇ ਲੇਖਕ/ਲੇਖਕ ਰਚਿਤ ਸਫ਼ਰਨਾਮਾ-ਅੰਸ਼ ਨਾਲ਼ ਸੰਬੰਧਿਤ, ਦੂਜਾ ਪ੍ਰਸ਼ਨ ਸਫ਼ਰਨਾਮਾ-ਅੰਸ਼ਾਂ ਦੀ ਪਾਠ -ਸਮਗਰੀ 'ਤੇ ਆਧਾਰਿਤ ਹੋਵੇਗਾ)।
- (ੲ) **ਭਾਸ਼ਾ-ਬੋਧ:** 4 ਅੰਕ
  - ਇੱਕ ਪ੍ਰਸ਼ਨ ਭਾਸ਼ਾ ਦੀ ਬਣਤਰ ਜਾਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਭਾਸ਼ਾ ਦੇ ਮਹੱਤਵ ਨਾਲ਼ ਸੰਬੰਧਿਤ।
  - ਇੱਕ ਪ੍ਰਸ਼ਨ ਗੁਰਮੁਖੀ ਲਿਪੀ ਨਾਲ਼ ਸੰਬੰਧਿਤ।
  - ਦੋ ਪ੍ਰਸ਼ਨ ਉਪਭਾਸ਼ਾਈ ਸ਼ਬਦਾਵਲੀ ਨਾਲ਼ ਸੰਬੰਧਿਤ ਹੋਣਗੇ।

**10×1=10 ਅੰਕ**

**ਪ੍ਰਸ਼ਨ ਨੰ: 2** 'ਆਧੁਨਿਕ ਪੰਜਾਬੀ-ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ)' ਪਾਠ-ਪੁਸਤਕ ਦੇ ਆਧੁਨਿਕ-ਕਾਵਿ ਵਿੱਚੋਂ ਚਾਰ ਬੰਦ ਦੇ ਕੇ ਕਿਸੇ ਦੋ ਦੀ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਕਰਨ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ।

**7+7=14 ਅੰਕ**

**ਪ੍ਰਸ਼ਨ ਨੰ: 3** 'ਆਧੁਨਿਕ ਪੰਜਾਬੀ-ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ)' ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚੋਂ ਕੋਈ ਦੋ ਰਚਨਾਵਾਂ ਦਾ ਸਿਰਲੇਖ ਅਤੇ ਕਵੀ ਦਾ ਨਾਂ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਦਾ ਕੇਂਦਰੀ ਭਾਵ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ।

**6 ਅੰਕ**

**ਪ੍ਰਸ਼ਨ ਨੰ: 4** 'ਆਧੁਨਿਕ ਪੰਜਾਬੀ-ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ)' ਪਾਠ-ਪੁਸਤਕ ਦੇ 'ਪੰਜਾਬੀ ਕਵਿਤਾ ਦਾ ਸੰਖੇਪ ਇਤਿਹਾਸ' ਭਾਗ ਵਿੱਚੋਂ ਕੋਈ ਤਿੰਨ ਪ੍ਰਸ਼ਨ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਦਾ ਉੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ।

**15 ਅੰਕ**

- ਪ੍ਰਸ਼ਨ ਨੰ: 5** 'ਅੱਖੀਂ ਡਿੱਠੀ ਦੁਨੀਆਂ' ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚੋਂ ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲੇ ਚਾਰ ਪ੍ਰਸ਼ਨ ਪੁੱਛ ਕੇ ਕਿਸੇ ਦੋ ਦਾ ਉੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। **5+5=10 ਅੰਕ**
- ਪ੍ਰਸ਼ਨ ਨੰ: 6** 'ਅੱਖੀਂ ਡਿੱਠੀ ਦੁਨੀਆਂ' ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚੋਂ ਤਿੰਨ ਸਫ਼ਰਨਾਮਾ-ਅੰਸ਼ ਦੇ ਕੇ ਕਿਸੇ ਇੱਕ ਦਾ ਸਾਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। **15 ਅੰਕ**
- ਪ੍ਰਸ਼ਨ ਨੰ: 7** 'ਭਾਸ਼ਾ-ਬੋਧ' ਪਾਠ-ਪੁਸਤਕ 'ਤੇ ਆਧਾਰਿਤ, ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ ਨਾਲ ਸੰਬੰਧਿਤ ਚਾਰ ਪ੍ਰਸ਼ਨ ਪੁੱਛ ਕੇ ਕਿਸੇ ਦੋ ਦਾ ਉੱਤਰ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ। **5+5=10 ਅੰਕ**
- ਪ੍ਰਸ਼ਨ ਨੰ: 8** 'ਭਾਸ਼ਾ-ਬੋਧ' ਪਾਠ-ਪੁਸਤਕ ਵਿੱਚ ਦਿੱਤੀਆਂ ਪੰਜਾਬੀ ਦੀਆਂ ਉਪਭਾਸ਼ਾਵਾਂ ਦੀ ਸ਼ਬਦਾਵਲੀ 'ਤੇ ਆਧਾਰਿਤ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ-
- (ੳ) ਉਪਭਾਸ਼ਾਈ ਅੱਠ ਸ਼ਬਦ ਦੇ ਕੇ ਉਹਨਾਂ ਵਿੱਚੋਂ ਕਿਸੇ ਪੰਜ ਦਾ ਟਕਸਾਲੀ ਪੰਜਾਬੀ ਵਿੱਚ ਰੂਪਾਂਤਰ ਕਰਨ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ।
- (ਅ) ਟਕਸਾਲੀ ਪੰਜਾਬੀ ਦੇ ਅੱਠ ਸ਼ਬਦ ਦੇ ਕੇ ਕਿਸੇ ਪੰਜ ਦਾ ਉਪਭਾਸ਼ਾ ਵਿੱਚ ਮਿਲਦਾ ਰੂਪ ਪੁੱਛਿਆ ਜਾਵੇਗਾ। **5+5=10 ਅੰਕ**

**ਨਿਰਧਾਰਿਤ ਪਾਠ-ਪੁਸਤਕਾਂ:-**

1. ਆਧੁਨਿਕ ਪੰਜਾਬੀ-ਕਾਵਿ (ਝਲਕਾਂ ਤੇ ਇਤਿਹਾਸ)
2. ਅੱਖੀਂ ਡਿੱਠੀ ਦੁਨੀਆਂ
3. ਭਾਸ਼ਾ -ਬੋਧ

**ਪ੍ਰਕਾਸ਼ਕ: ਪੰਜਾਬ ਸਕੂਲ ਸਿੱਖਿਆ ਬੋਰਡ।**

## 7. Hindi

पाठ्यक्रम (संशोधित)		पूर्णांक - 90
कक्षा : ग्यारहवीं		सी.सी.ई - 10
विषय : हिंदी		
समय : 3 घंटे		
विषय वस्तु	अंक	
भाग-क : अति लघूत्तर प्रश्न (वस्तुनिष्ठ प्रश्न)	10	
भाग-ख : पाठ्य-पुस्तक ( हिंदी पुस्तक- 11 )	35	
भाग-ग : हिंदी साहित्य का इतिहास ( आदिकाल एवं भक्तिकाल)	10	
भाग-घ : रचनात्मक लेखन	15	
1. पत्र-लेखन	(7)	
2. अनुच्छेद लेखन	(8)	
भाग-ङ : व्यावहारिक ज्ञान	15	
1. पंजाबी वाक्यों का हिंदी अनुवाद	(5)	
2. पारिभाषिक शब्दावली (A से लेकर I तक)	(6)	
3. संक्षेपीकरण	(4)	
भाग-च : रस (शृंगार, करुण, हास्य, शांत, रौद्र, वीर, अद्भुत, भयानक और वीभत्स)	05	
पंजाब स्कूल शिक्षा बोर्ड द्वारा निर्धारित पाठ्य-पुस्तकें		
1. हिंदी पुस्तक-11		
2. हिंदी भाषा बोध और व्याकरण (ग्यारहवीं और बारहवीं कक्षा के लिए)		
3. हिंदी साहित्य का इतिहास (ग्यारहवीं और बारहवीं कक्षा के लिए)		



प्रश्न-पत्र की रूपरेखा (संशोधित)  
 कक्षा : ग्यारहवीं  
 विषय : हिंदी  
 पूर्णांक - 90  
 सी.सी.ई. - 10

समय : 3 घंटे

- प्रश्न-पत्र में कुल 16 प्रश्न होंगे।
- सभी प्रश्न हल करने अनिवार्य होंगे।
- प्रश्न-पत्र के छह भाग (क से च तक) होंगे।

**भाग-क : अति लघुतर प्रश्न (वस्तुनिष्ठ प्रश्न)**

10

**प्रश्न-1 :** में (i) से (X) तक वस्तुनिष्ठ प्रश्न पूछे जायेंगे। प्रत्येक प्रश्न एक अंक का होगा। ये प्रश्न एक शब्द से एक वाक्य तक के उत्तर वाले अथवा हाँ/ नहीं अथवा रिक्त स्थानों की पूर्ति अथवा सही/ गलत अथवा बहुवैकल्पिक उत्तरों वाले, किसी भी प्रकार के हो सकते हैं।

- (i) से (iii) तक संधि/ संधिविच्छेद से सम्बन्धित तीन वस्तुनिष्ठ प्रश्न पूछे जायेंगे।  $1 \times 3 = (3)$   
 (iv) वाक्य विश्लेषण से सम्बन्धित एक वस्तुनिष्ठ प्रश्न पूछा जायेगा। (1)  
 (v) वाक्य संश्लेषण से सम्बन्धित एक वस्तुनिष्ठ प्रश्न पूछा जायेगा। (1)  
 (vi) से (vii) तक पाठ्य - पुस्तक ( हिंदी पुस्तक-11 ) में से दो वस्तुनिष्ठ प्रश्न पूछे जायेंगे।  $1 \times 2 = (2)$   
 (viii) से (ix) तक हिंदी साहित्य का इतिहास ( आदिकाल एवं भक्तिकाल) में से दो वस्तुनिष्ठ प्रश्न पूछे जायेंगे।  $1 \times 2 = (2)$   
 (x) रस से सम्बन्धित एक वस्तुनिष्ठ प्रश्न पूछा जायेगा। (1)

**भाग-ख (पाठ्य - पुस्तक)**

35

- प्रश्न-2** (i) हिंदी पुस्तक-11 में संकलित 'प्राचीन काव्य' में से दो पद्यांश दिये जायेंगे जिनमें से एक पद्यांश की सप्रसंग व्याख्या लिखने के लिये कहा जायेगा। प्रसंग के लिये 1 अंक तथा व्याख्या के लिये 4 अंक निर्धारित हैं।  $1+4= (5)$   
 (ii) हिंदी पुस्तक-11 में संकलित 'आधुनिक काव्य' में से दो पद्यांश दिये जायेंगे जिनमें से एक पद्यांश की सप्रसंग व्याख्या लिखने के लिये कहा जायेगा। प्रसंग के लिये 1 अंक तथा व्याख्या के लिये 4 अंक निर्धारित हैं।  $1+4= (5)$

- प्रश्न-3** (i) 'प्राचीन काव्य' की विषय वस्तु से सम्बन्धित दो लघुतर प्रश्न पूछे जायेंगे जिनमें से एक प्रश्न का उत्तर लगभग 50 शब्दों में लिखने के लिये कहा जायेगा। 3  
 (ii) 'आधुनिक काव्य' की विषय वस्तु से सम्बन्धित दो लघुतर प्रश्न पूछे जायेंगे जिनमें से एक प्रश्न का उत्तर लगभग 50 शब्दों में लिखने के लिये कहा जायेगा। 3

- प्रश्न-4** पाठ्य - पुस्तक में संकलित गद्य भाग में से दो गद्यांश दिये जायेंगे जिनमें से एक गद्यांश की सप्रसंग व्याख्या लिखने के लिये कहा जायेगा। प्रसंग के लिये 1 अंक तथा व्याख्या के लिये 4 अंक निर्धारित हैं।  $1+4= (5)$

- प्रश्न-5** पाठ्य - पुस्तक में संकलित गद्य भाग की विषय वस्तु से सम्बन्धित दो निबन्धात्मक प्रश्न पूछे जायेंगे जिनमें से एक प्रश्न का उत्तर लगभग 80 शब्दों में लिखने के लिये कहा जायेगा। (5)

**नोट :-** प्रश्न-पत्र निर्माता पाठ्य - पुस्तक में संकलित गद्य भाग (निबन्ध, कहानी एवं एकांकी) की सभी विधाओं की पूर्ण प्रतिनिधित्व दे।

प्रश्न-6 पाठ्य - पुस्तक में संकलित 'निबन्ध' भाग में से दो लघूत्तर प्रश्न पूछे जायेंगे जिनमें से एक प्रश्न का उत्तर लगभग 50 शब्दों में लिखने के लिये कहा जायेगा। (3)

प्रश्न-7 पाठ्य - पुस्तक में संकलित 'कहानी' भाग में से दो लघूत्तर प्रश्न पूछे जायेंगे जिनमें से एक प्रश्न का उत्तर लगभग 50 शब्दों में लिखने के लिये कहा जायेगा। (3)

प्रश्न-8 पाठ्य - पुस्तक में संकलित 'एकांकी' भाग में से दो लघूत्तर प्रश्न पूछे जायेंगे जिनमें से एक प्रश्न का उत्तर लगभग 50 शब्दों में लिखने के लिये कहा जायेगा। (3)

भाग-ग हिंदी साहित्य का इतिहास (आदिकाल एवं भक्तिकाल) 10  
प्रश्न-9 इस प्रश्न में हिंदी साहित्य के 'आदिकाल' की प्रमुख परिस्थितियों, प्रमुख प्रवृत्तियों एवं प्रमुख कवियों से सम्बन्धित दो निबन्धात्मक प्रश्न पूछे जायेंगे जिनमें से एक प्रश्न का उत्तर लगभग 80 शब्दों में लिखने के लिये कहा जायेगा। (5)

प्रश्न-10 इस प्रश्न में हिंदी साहित्य के 'भक्तिकाल' की प्रमुख परिस्थितियों, प्रमुख प्रवृत्तियों एवं प्रमुख कवियों से सम्बन्धित दो निबन्धात्मक प्रश्न पूछे जायेंगे जिनमें से एक प्रश्न का उत्तर लगभग 80 शब्दों में लिखने के लिये कहा जायेगा। (5)

भाग-घ (रचनात्मक लेखन) 15

प्रश्न-11 यह प्रश्न पत्र-लेखन से सम्बन्धित होगा। इस प्रश्न में 100 प्रतिशत आन्तरिक विकल्प दिया जायेगा। (7)

प्रश्न-12 यह प्रश्न अनुच्छेद लेखन से सम्बन्धित होगा। कोई तीन विषय देकर उनमें से किसी एक विषय पर लगभग 120 शब्दों में अनुच्छेद लिखने के लिये कहा जायेगा। (8)

भाग-ङ (व्यावहारिक ज्ञान) 15

प्रश्न-13 यह प्रश्न अनुवाद से सम्बन्धित होगा। इस प्रश्न में पंजाबी के सात वाक्य देकर उनमें से किन्हीं पाँच वाक्यों का हिंदी में अनुवाद करने के लिये कहा जायेगा। (5)

प्रश्न-14 इसमें अंग्रेजी के छह पारिभाषिक शब्द दिये जायेंगे जिनमें से किन्हीं चार शब्दों के हिंदी रूप लिखकर वाक्यों में प्रयोग करने के लिये कहा जायेगा।  $1\frac{1}{2} \times 4$  (6)

प्रश्न-15 यह प्रश्न संक्षेपीकरण से सम्बन्धित होगा। कोई एक अनुच्छेद देकर उसका संक्षेपीकरण करने के लिये कहा जायेगा। (4)

भाग-च : (रस) 05

प्रश्न-16 कोई दो रस देकर किसी एक रस की परिभाषा और उदाहरण लिखने के लिये कहा जायेगा। (5)

**CLASS - XI**  
**8. ENGLISH ELECTIVE**

**Time: 3 Hrs**

**Theory: 90 Marks**  
**CCE: 10 Marks**  
**Total: 100 Marks**

**STRUCTURE OF QUESTION PAPER**  
**PART-A**

**Objective type question No.1 will be compulsory (10 marks)**

(1) It will consist of 10 objective type questions carrying one mark each. Objective type questions may include questions with one word to one sentence answer **or** fill in the blank **or** true/false **or** multiple choice type questions.

- English Reader Book-V 5
- Selections from English Verse 2
- A Book of Essays and Stories 3

**PART-B (ENGLISH READER BOOK-V) (18 marks)**

**Text for detailed study**

(2) Comprehension of a passage

Comprehension is to be tested with the help of the following techniques:

- (i) Who spoke/wrote these words to whom/about whom/name of the chapter and the author
- (ii) Short - answer type questions
- (iii) Matching exercise
- (iv) Fill in the blanks
- (v) Meanings of difficult words in simple English 10 marks

(3) (a) An essay type question in about 125 words on character-sketch/theme etc.

(with internal choice) 4

(b) An essay type question in about 125 words on the main incident/episode etc.

(with internal choice) 4

**PART -C (SELECTIONS FROM ENGLISH VERSE)**

**Text for detailed study (10 marks)**

(4) (a) Explanation with Reference to the Context (One out of two stanzas) 6

(b) Central idea of a poem 4

**PART-D (A BOOK OF ESSAYS AND STORIES) (20 marks)**

**Text for detailed study**

(5) (a) Short answer type questions from different lessons (four out of six) 4×3=12

(a) One essay type question on incident/episode/character-sketch/theme etc.

(with internal choice) 8

**PART-E (COMPOSITION AND GRAMMAR) (32 marks)**

(6) Application/Letter 10

(7) Essay (One out of three) 6

(8)	Do as directed type question covering the following items:	
(i)	Voice	2
(ii)	Narration	2
(iii)	Use of words as a noun, a verb or an adjective/an adverb in a sentence (Only one word)	1
(iv)	Combining two sentences with appropriate linkers.	1
(v)	Fill in the blank with a suitable preposition or a determiner.	1
(vii)	Various concepts	2
(viii)	Transformation of sentences	2
1.	Translation from English into Vernacular (A running passage of 4 sentences only)	5

**Note:** A special question in lieu of translation for foreign students.

### SYLLABUS

#### **Book-I English Reader Book V**

1. The Young Akbar
2. The Story of Sri Rama's Exile
3. The Discovery of Penicillin
4. The Story of Michael
5. Guru Gobind Singh
6. Sohrab and Rustam-I
7. Sohrab and Rustam-II
8. A Modern Miracle
9. Abou Hassan and his Wife
10. A Spark Neglected Burns the House-I
11. A Spark Neglected Burns the House II

#### **Book-II Selections From English Verse**

1. The Way of Poetry – *William Blake*
2. Going Downhill on a Bicycle – *H.C. Beeching*
3. My Native Land – *Walter Scott*
4. The Snake – *Emily Dickinson*
5. Abou Ben Adhem – *Leigh Hunt*
6. The Patriot – *Robert Browning*
7. The Brook – *Alfred Lord Tennyson*
8. Casabianca – *Mrs Hemans*
9. Robin Hood and Alan-A-Dale (*Anonymous*)
10. Elegy on the Death of a Mad Dog – *Oliver Goldsmith*
11. We are Seven – *William Wordsworth*
12. Lady Clare - *Alfred Lord Tennyson*
13. The Charge of the Light Brigade - *Alfred Lord Tennyson*

#### **Book-III A Book of Essays and Stories**

1. The Real Princess
2. Gulliver in Lilliput
3. Tom Whitewashes a Fence
4. A Street Scene
5. Build Yourself for Leadership
6. Controlling the Mind
7. Three Questions

8. The Cabuliwallah
9. The Emperor's New Clothes
10. Gandhi's Appeal
11. The Judgement Seat of Vikramaditya
12. The Black Cat
13. The Happy Prince
14. The Bet
15. The Last leaf

#### **APPLIED GRAMMAR**

1. The Sentence and its Forms
2. The Sentence and its Kinds
3. The Clause and its Kinds
4. The Structure of the Noun Phrase
5. Nouns
6. Pronouns
7. Determiners (The Use of Articles and their Equivalents)
8. Adjectives
9. The Structure of the Verb Phrase
10. The Main Verb: Transitive and Intransitive
11. Linking Verbs
12. The Tense
13. Preposition and Prepositional Phrases
14. Adverbs
15. Conditional Sentences
16. Adjective Clauses
17. Active and Passive Voice
18. Direct and Indirect Speech
19. Vocabulary Expansion
20. Short Responses
21. Various Concepts- How to express them(1)
22. Various Concepts- How to express them(2)
23. The Patterning of Certain Verbs

#### **Composition**

- |   |                |
|---|----------------|
| 1. Translation from English into Vernacular | 2. Application |
| 3. Letter                                   | 4. Essay       |

**Note:** A paragraph in lieu of translation for foreign students.

Books Prescribed & Published by the Punjab School Education Board.

- |                                  |                                       |
|----------------------------------|---------------------------------------|
| 1. English Reader Book-V         | 3. A Book of Essays and Stories       |
| 2. Selections from English Verse | 4. A Practice Book of English Grammar |

**Note:** All the lessons in the above books are included in the syllabus. No part has been deleted.

**CLASS-XI**  
**9. विषय : संस्कृत**  
**पाठ्यक्रम 2019-20**

	<ul style="list-style-type: none"> <li>• प्रश्नपत्र में कुल 11 प्रश्न होंगे।</li> <li>• प्रश्न पत्र में चार भाग ( क से घ तक) होंगे ।</li> </ul> <p style="text-align: center;"><b>भाग - क</b></p> <p style="text-align: center;"><b>अति लघूत्तर प्रश्न ( वस्तुनिष्ठ प्रश्न )</b></p> <p><b>प्रश्न-1</b> में (i) से (x) तक वस्तुनिष्ठ प्रश्न पूछे जायेंगे । प्रत्येक प्रश्न एक अंक का होगा ।ये प्रश्न एक शब्द से एक वाक्य तक के उत्तरों वाले अथवा हाँ/नहीं अथवा सही/गलत अथवा बहुवैकल्पिक उत्तरों वाले, किसी भी प्रकार के हो सकते हैं ।यह प्रश्न पाठ्यक्रम से ही पूछे जायें।</p> <p>(i) से (ii) तक शब्द रूप ( पुल्लिंग ,स्त्री लिंग तथा नपुंसकलिंग ) से सम्बन्धित दो वस्तुनिष्ठ प्रश्न पूछे जायेंगे ।</p> <p>(iii) से (iv) तक धातुरूप (लटलकार, लोटलकार,लङ्लकार, विधिलिङ् , लृटलकार) से सम्बन्धित दो वस्तुनिष्ठ प्रश्न पूछे जायेंगे ।</p> <p>(v) से ( vi) तक केवल ( इतरेतर , एकशेष ,समाहार ) द्वन्द्व समास से सम्बन्धित दो वस्तुनिष्ठ प्रश्न पूछे जायेंगे।</p> <p>(vii) से ( viii) तक तुलनात्मक प्रत्यय अथवा स्त्री प्रत्यय से सम्बन्धित दो वस्तुनिष्ठ प्रश्न पूछे जायेंगे।</p> <p>(ix) से ( x) तक सन्धि से सम्बन्धित दो वस्तुनिष्ठ प्रश्न पूछे जायेंगे।</p> <p style="text-align: center;"><b>भाग -ख</b></p> <p style="text-align: center;"><b>(पाठ्य पुस्तक के 1 से 18 तक पाठ )</b></p>
2	गद्यांशों का हिन्दी या पंजाबी या अंग्रेज़ी में अनुवाद ।
3	पद्य का हिन्दी या पंजाबी या अंग्रेज़ी में प्रसंग सहित अर्थ ।
4	पाठों के अभ्यासों में से हिन्दी में प्रश्न ।
5	पाठों के अभ्यासों में से संस्कृत लघु प्रश्न ।
6	पाठों के अभ्यासों में से संस्कृत शब्दों के हिन्दी में अर्थ ।
7	पाठों के अभ्यासों में से रिक्त स्थान पूर्ति ।
	<p style="text-align: center;"><b>अथवा</b></p> <p>पाठों के अभ्यासों में से यथानिर्दिष्ट परिवर्तन ।</p>
8	<p style="text-align: center;"><b>भाग ग</b></p> <p style="text-align: center;"><b>नाटक भाग (19 , 20 पाठ )</b></p> <p>(क) नाटक के अंशों का प्रसंग सहित अर्थ हिन्दी या पंजाबी या अंग्रेज़ी में।</p> <p>(ख) नाटक के अभ्यासों पर आधारित हिन्दी में प्रश्न ।</p>
	<p style="text-align: center;"><b>भाग-घ</b></p> <p style="text-align: center;"><b>( व्याकरण भाग )</b></p>
9	(क) <b>शब्द रूप</b> : ( पु. ) देव, पति, सखि , साधु, महत्, वलवत्, पठत्, गच्छत्,आत्मन्, करिन् ।
	(नपुं. ) फल , पठत ,नामन् महत्, गच्छत्, ।
	(स्त्री. ) प्रभा , नदी वधू प्रभा, महती, गच्छन्ती, पठन्ती।
	सर्वनाम सब लिंगों और विभक्तियों में -युस्मद् , अस्मद् , तद् , एतद् , यद् ,इदम् ,किम् , सर्व ।
	(ख) <b>धातु रूप</b> : ( लट्, लोट्, लङ्, विधिलिङ् , लृटलकार)
	भ्वादिगण : ( परस्मैपद ) गर्ज् ,सृ ,तृ ,।
	आत्मनेपद- लभ् , सेव् , वृत् ।
	तुदादिगण : (परस्मैपद ) सिच् ।
	दिवादिगण : (परस्मैपद ) शम् ।
	चुरादिगण : उभयपद (प.)चिन्त् ,तुल् ,पाल् कथ्
	(ग) <b>वाक्य शुद्धि</b> : अशुद्ध- शुद्ध वाक्यों पर आधारित ।
	<p style="text-align: center;"><b>अथवा</b></p> <p><b>वाच्य परिवर्तन</b> :- कर्तृवाच्य ,कर्मवाच्य , भाववाच्य की सरल रचनाएं केवल लटलकार में ।</p>
10	(क) <b>समास</b> : केवल ( इतरेतर , एकशेष ,समाहार ) द्वन्द्व समास ।
	(ख) <b>सन्धि</b> : <b>स्वर सन्धि</b> :- पूर्वरूप विधि , पररूप विधि , प्रकृतिभाव सन्धि ।
	<b>व्यंजन सन्धि</b> :-श्चुत्व विधि , ष्टुत्व विधि ,छत्व विधि,चर विधि , अनुनासिक विधि, अनुस्वर विधि , षत्व विधि , लत्व विधि , जश् विधि ,पूर्व सवर्ण विधि ।



	<p><b>विसर्ग सन्धि :-</b> लोप विधि , उत्त्व विधि ,रत्त्व विधि , शत्व विधि , सत्त्व विधि ।</p> <p>(ग) निम्नलिखित धातुओं के साथ क्त, क्तवत्, शतृ, शानच्, प्रत्यय लगाकर तीनों लिंगों में केवल प्रथमा विभक्ति एकवचन के रूप -भू,पठ्, लिख्,नम्, हस्, वस्, चल्, पत्, खाद् धाव्,क्रीड् दृश्,स्था, पा, सेव्, वृत्,वृध्, लभ् ।</p> <p><b>अथवा</b></p> <p>निम्नलिखित धातुओं के साथ क्त्वा प्रत्यय के रूप तथा उपयुक्त उपसर्ग लगाकर ल्यप् प्रत्यय के रूप गम्, नम्, नश्, पत्, क्षल्, जि, नी, विश्, भू, स्था, घ्रा, दा, आप्, कृ, हृ, स्मृ ।</p>
	<p>(घ) <b>तुलनात्मक प्रत्यय:</b> विशेषणों के साथ केवल तरप् तथा तमप् प्रत्यय ।</p> <p><b>अथवा</b></p> <p><b>तद्धित प्रत्यय</b> - केवल भाववाची त्व और ता प्रत्यय ।</p> <p>(ङ) <b>स्त्री प्रत्यय</b> - ई तथा आ प्रत्यय के सरल प्रयोग ।</p>
11	हिन्दी सरल वाक्यों का संस्कृत में अनुवाद ।
	<b>निर्धारित पुस्तक : संस्कृत सौभम्- 11 पंजाब स्कूल शिक्षा बोर्ड द्वारा प्रकाशित</b>

**कक्षा : ग्यारहवीं**  
**संस्कृत**  
**प्रश्न- पत्र की रूपरेखा**

समय : 3 घण्टे

कुल अंक : 90  
सी. सी. ई : 10

भाग= क

1 अति लघूत्तर प्रश्न ( वस्तुनिष्ठ प्रश्न )

10x1=10

भाग = ख  
( पाठ्य पुस्तक )

2	तीन गद्यांश दिए जाएं जिनमें से दो का अनुवाद हिन्दी या पंजाबी या अंग्रेज़ी में करने को कहा जाए ।	5x2=10
3	तीन पद्य दिए जाएं जिनमें से दो का प्रसंग सहित अर्थ हिन्दी या पंजाबी या अंग्रेज़ी में लिखने को कहा जाए।	5x2=10
4	पाठों के अभ्यासों में से चार प्रश्न हिन्दी में पूछे जाएं, जिनमें से दो का उत्तर हिन्दी में लिखने को कहा जाए ।	2x2=4
5	संस्कृत में चार लघु प्रश्न दिए जाएं , जिनमें से दो का उत्तर संस्कृत में लिखने को कहा जाए।	2x2=4
6	पाठों के अभ्यासों में से सात संस्कृत शब्द दिए जाएं, जिनमें से पाँच शब्दों का हिन्दी में अर्थ लिखने को कहा जाए ।	5 x1=5
7	पाठों के अभ्यासों में से छः रिक्त स्थान पूर्ति के वाक्य दिए जाएं जिनमें से चार रिक्त स्थानों की पूर्ति करने को कहा जाए । <b>अथवा</b> यथानिर्दिष्ट परिवर्तन के छः वाक्य दिए जाएं जिनमें से चार वाक्यों में परिवर्तन करने को कहा जाए।	4 x1=4
8	<b>भाग ( ग ) नाटक भाग</b> (क) नाटक भाग में से दो अंश दिए जाएं जिनमें से एक का प्रसंग सहित अर्थ हिन्दी या पंजाबी या अंग्रेज़ी में लिखने को कहा जाए ।प्रसंग के 2 अंक तथा अर्थ के 2 अंक हैं । (ख) नाटक के अभ्यासों में से चार प्रश्न हिन्दी में पूछे जाएं , जिनमें से दो का उत्तर हिन्दी में लिखने को कहा जाए ।	1x4=4  2x2=4
	<b>भाग (घ) व्याकरण भाग</b>	
9	(क) पाठ्यक्रम में दिए गये शब्द रूपों में से छः शब्दों के रूप किसी एक विभक्ति के तीनों वचनों में पूछे जायें जिनमें से केवल चार शब्दों के रूप लिखने हों ।	4x1½=6
	(ख) पाठ्यक्रम में दिए गये धातु रूपों में से छः धातुओं के रूप किसी एक लकार के एक पुरुष के तीनों वचनों में पूछे जायें जिनमें से केवल चार धातुओं के रूप लिखने हों ।	4x1½=6
	(ग) कारक सम्बन्धी अशुद्धि वाले पाँच वाक्य दिये जायें जिनमें से तीन वाक्यों को शुद्ध करने को कहा जाये । <b>अथवा</b> वाच्य परिवर्तन के पाँच वाक्य दिए जाएं जिनमें तीन वाक्य हल करने को कहा जाए।	3x1=3
10	(क) पाठ्यक्रम में दिए गए समासों से संबंधित पाँच समस्त पद दिए जाएं जिनमें से तीन का विग्रह करने को कहा जाए ।	3x1=3
	(ख) पाठ्यक्रम में दी गई सन्धियों में से सात सन्धि विच्छेद दिये जाएं जिनमें से चार करने को कहा जाए।  (ग) पाठ्यक्रम के अनुसार सात धातुओं के साथ कृदन्त प्रत्यय लगाने के लिए दिए जाएं जिनमें से चार करने को कहा जाए । <b>अथवा</b>	4x1=4

	पाठ्यक्रम के अनुसार सात धातुओं के साथ क्त्वा प्रत्यय के रूप तथा ल्यप् प्रत्यय के रूप बनाने के लिए दिए जाएं जिनमें से चार करने को कहा जाए।	4×1=4
	(घ) पाठ्यक्रम में से तुलनात्मक प्रत्यय : विशेषणों के साथ केवल तरप् तथा तमप् प्रत्यय के छः रूप दिये जायें जिनमें चार करने को कहा जाए। <b>अथवा</b> तद्धित प्रत्यय केवल भाववाची त्व और ता प्रत्यय के छः रूप दिये जायें जिनमें चार करने को कहा जाए। (ङ) स्त्री प्रत्यय के छः रूप दिये जायें जिनमें चार करने को कहा जाए ।	4×1½=2  4×1½=2
11	हिन्दी के आठ वाक्य दिए जाएं जिनमें से पाँच वाक्यों का संस्कृत में अनुवाद करने को कहा जाए ।	5×1=5

**CLASS – XI**  
**10. HISTORY**

**Time: 3 Hrs**

**Theory: 90 Marks**

**CCE: 10 Marks**

**Total: 100 Marks**

**STRUCTURE OF QUESTION PAPER**

1. All questions are compulsory.
2. The question paper will comprises 4 sections A, B, C and D of 28 sub parts (questions) in total. The question paper will carry:

A. **Objective Type Questions:** This type may include questions with one word to one sentence answer/ fill in the blank/ true or false/ multiple choice type questions. Question No. 1 comprises of 10 sub parts each sub-part carries 1 marks. .

**10×1= 10**

B. **Short Answer Questions:** .Question No.2 comprises of 10 sub parts. Each sub-part carries 3 marks. Answer to each question should be in about 35-40 words.

**10×3= 30**

C. **Long answer Questions:** Question No. 3 comprises of 10 sub parts. Attempt any 7 Questions. Each sub-part carries 5 marks. Answer to each question should be in about 100-150 words.

**7×5= 35**

D. **Map Question:** There will be a one questions of map carries 15 marks (10marks for showing 5 places and 5 marks for explanation of those places to be written in 20 to 25 words) with 100% internal choice.

**1×15= 15**

**SYLLABUS**

**SECTION-A**

- I. Indus Valley Civilisation: A Synoptic view of Research Material, Culture, Socio -Cultural life; Decline and Disappearance.
- II. The Indo-Aryans: Early Settlements; Political Organisations; Economic life; Social Institutions; Religious beliefs and practices; Legacy.
- III. Buddhism and Jainism: the Socio-Political Environment, Major Doctrines; socio-political impact; Legacy.
- IV. The Mauryas: The background to their rise into power; Establishment and Consolidation of their Empire: Ashoka's Dhamm Social and Cultural life during their rule.
- V. The Age of the Guptas: Establishment and Consolidation of the Gupta Empire, Major Socio-Cultural achievement of the age; Legacy.
- VI. The Vardhanas and their times: Political supremacy in the North; Kingdoms of the South; cultural achievements of the age; Legacy.
- VII. The Rajputs: Establishment their kingdom; Political Conflict and Change; socio-Political Structure; Survival.

- VIII. The Sultanate of Delhi: Establishment of Turkish Rule, Dynastic changes and the fortunes of the Sultanate, Administration; the ruling classes; Art, and Architecture, Socio-religious life.
- IX. Kingdoms of the South: The Bahmani empire and its successor states; the Vijayanagar empire; Administration, the Ruling classes: Art Architecture; socio-religious life.
- X. Socio-religious Movements; Vashnava Bhakti; the Saints.
- XI. Guru Nanak Dev Ji and Foundation of Sikhism: Socio-religious environment; Development of Sikhism (1539-1605); Transformation of Sikhism (1605-1966); Discovery of a New panth, Foundation of a New panth, Legacy.

### **SECTION-B**

- XII. Establishment of the Mughal Empire: Mughal Afghan Contest; Consolidation of the Mughal
- XIII. Mughal Policy and Administration: Conception of Kingship: Attitude towards the subjects-people; central and provincial administration; administration of justice and local administration; the Mansabdari System.
- XIV. Rise of New Powers in the South: with special reference to the Marathas.
- XV. Rise of New Powers in the North: with special reference to the Sikhs.
- XVI. Maharaja Ranjit Singh: Conquests and Consolidation; the New Ruling classes; Administration; Attitude towards the subject people; Relationship with sovereign powers; the Legacy.
- XVII. Advent of the Europeans and their struggle for supremacy: the Portuguese; the Dutch: The French: Anglo French rivalry; Emergence of East India Company as a political power in India.
- XVIII. Expansion and Consolidation of the British empire; Expansion through war and diplomacy; Imperial framework: administration and bureaucracy.
- XIX. Social and Economic changes under British rule: Means of Communication and Transportation; Raw materials for Export: Industrial Development; The India elite; The Middle classes; The working class.
- XX. Socio-religious movements; Construction, Bramho Samaj, Aligarh Movement, Nirankari Movement, Kuka Movement and Singh Sabha Movement.
- XXI. Political Consciousness and struggle for Representative Government in India: the revolt of 1857 and its legacy; the Indian National Congress; the Home Rule Movement; Constitutional Reforms; Jallianwala Bagh massacre and its impact; Demand for independence.
- XXII. Towards Freedom: the Quit India Movement and its aftermath; Transfer of power.

**SECTION - C**  
**MAP QUESTION**

- (i) Sites of Indus Valley Civilization
- (ii) Extent of Ashoka's empire
- (iii) Extent of Samundragupta's empire
- (iv) Important Historical places
- (v) India in 1526
- (vi) Extent of Akbar's empire
- (vii) Extent of Ranjit Singh's empire
- (viii) Important historical places



**CLASS - XI**  
**11. ECONOMICS**  
**(HUMANITIES GROUP)**

**Time: 3 Hrs**

**Theory: 80 Marks**  
**CCE: 10 Marks**  
**Project Work: 10 Marks**  
**Total: 100 Marks**

**STRUCTURE OF QUESTION PAPER**

1. There will be 29 Questions in all. All Questions will be compulsory.
- A. Objective Type Questions:-** Question No. 1 to 10 will carry 1 mark each. Answer to each question should be in about 1-15 words. Objective type questions may include questions with one word to one sentence answer/fill in the blank/true or false/multiple choice type questions.  
**1×10= 10**
- B. Very Short Answer Type Questions:-** Question No. 11 to 17 will carry 2 marks each. Answer to each question should be in about 30-35 words. Out of 7 questions, 3 questions will be numerical. **2×7= 14**
- C. Short Answer Type Questions:-** Question No. 18 to 25 will carry 4 marks. Three questions out of 8 questions will be of internal choice. Answer to each question should be in about 60-70 words and 3 questions will be numerical from Part-A. **4×8= 32**
- D. Very Short Answer Type Questions:-** Question No. 26 & 29 will carry 6 marks each. Answer to each question should be in about 150 - 200 words. Out of 2 questions from Part-A one question will be numerical.  
**6×4= 24**

**Note: There will be a project work of 10 marks from Unit-4 of the syllabus. The practical examination of this project work will be taken by the subject teacher.**

**Unit-wise Weightage to Content**

Typology of Questions	Number of questions	Marks Division	Division of Syllabus		Total marks
			Part A Unit 1 to 4	Part B Unit 5 to 8	
Objective Type Questions	10	1	5	5	10 Marks
Short Answer Type questions type I	07	2	3	4	14 Marks
Short Answer Type Questions type-II	08	4	4	4	32 Marks
Long Answer Type Questions	04	06	2	2	24 Marks
<b>Total</b>	<b>29</b>	<b>---</b>	<b>14</b>	<b>15</b>	<b>80</b>

**SYLLABUS  
PART-A  
STATISTICS FOR ECONOMICS**

**UNIT-1. INTRODUCTION**

Statistics : Meaning, Scope and Importance of Statistics in Economics.

**UNIT-2. COLLECTION AND ORGANIZATION OF DATA**

a) Collection of Data:

Sources of Data-Primary and Secondary; Methods of Collecting Data; Important Sources of Secondary Data, Census of India and National Sample Survey Organization.

b) Organization of Data:

Presentation of Data and Diagrammatic Presentation of Data.

- i. Geometric Forms (Bar-Diagrams, Pie-Diagrams)
- ii. Frequency Diagrams (Histogram, Polygon and Ogive) and
- iii. Arithmetic Line-Graphs (Time Series Graphs)

**Unit-3. STATISTICAL TOOLS AND INTERPRETATION**

a) Measures of Central Tendency

Mean (simple and weighted), Median and Mode.

b) Measures of Dispersion

Absolute Dispersion (Range, Quartile Deviation, Mean Deviation & Standard Deviation); Relative Dispersion (Co-efficient of Quartile- Deviation, Coefficient of Mean Deviation, Co-Efficient of Variation). Lorenz Curve: Meaning and its Application.

c) Correlation:- Meaning, Scatter Diagram, Measures of Correlation-Karl Pearson's Method (two variables ungrouped data), Spearman's Rank Correlation.

d) Introduction to Index Numbers:- Meaning, Types, Wholesale Price Index, Consumer Price Index and Index of Industrial Production, Uses of Index Numbers; Inflation and Index Numbers.

**Unit-4. DEVELOPMENT PROJECTS IN ECONOMICS**

The students should be encouraged to develop projects which have primary data, secondary data or both. Case studies of a few organizations may also be encouraged. Some of the examples of the projects are as follows (they are not mandatory but more suggestive).

- i) A report on demographic structure of your neighbourhood / Institution.
- ii) Consumer awareness amongst households.
- iii) Changing prices of a few vegetables in your market.
- iv) Study of a co-operative institution: Milk Co-operatives.

**NOTE:- (The idea behind introducing this unit is to enable the students the ways and means by which project can be developed using the skills learned in the course. This includes all the steps involved in designing a project starting from choosing a title, exploring the information relating to the title. Collection of Primary and Secondary Data, Analysing the Data, Presentation of the project and using various statistical tools and their interpretation and conclusion.)**

## **PART-B**

### **INDIAN ECONOMIC DEVELOPMENT (Including Punjab Economy)**

#### **Unit-5. DEVELOPMENT POLICIES AND EXPERIENCE (1947-90)**

- i) A brief introduction of the state of Indian Economy on the eve of Independence.
- ii) Common Goals of Five Year Plans.
- iii) Agriculture: Main Features, Problems and Policies; Institutional Aspects and New Agriculture Strategy (Industrial Licensing etc.) and Foreign Trade.

#### **Unit-6. ECONOMIC REFORMS SINCE 1991**

Liberalization, Globalization, Privatization and WTO: Their Need And Main Features

#### **Unit-7. CURRENT CHALLENGES FACING INDIAN ECONOMY**

- i) Poverty-Absolute and Relative; Main Programmes for Poverty Alleviation: A critical assessment.
- ii) Rural Development:
  - a) Rural Finance and Credit Facility, The Problem of Indebtedness.
  - b) Different Sources of Rural Finance, The Role of Co-operative Credit Societies, Agricultural Land Development Banks, Co-operative Banks, NABARD, RBI and other Govt. Agencies for the Provision of Finance to the Rural People.
  - c) Rural Marketing Facilities:  
Problem of Storage and Marketing of Agricultural Produce in the Rural Areas; Role of Regulated and Unregulated Markets; Procurement and Pricing Policies of Agricultural Produce.
- iii) Status of Education, Health and Employment in India.
- iv) Environment: Sustainable Economic Development, Limited Availability of Resources, Environmental Degradation.

#### **Unit-8. PUNJAB ECONOMY**

- i) Manpower and Physical Resources of Punjab.
- ii) Agricultural Development of Punjab since 1966.
- iii) Industrial Development of Punjab since 1966  
Structure, Location and Industrial Policy of State Govt.
- iv) Growth and Pattern of Revenue and Expenditure and Financial Position of Punjab Govt.
- v) Economic Planning in Punjab: Aims, Objectives, Strategy and Performance of Planning in Punjab.

**CLASS - XI**  
**12. MATHEMATICS**

**Time: 3:00 hrs**

**Theory: 90 Marks**  
**CCE: 10 Marks**  
**Total: 100 Marks**

1. All Questions are Compulsory.
2. Q 1 will consist of 10 parts and each part will carry one (1) mark.
3. Q 2 to Q 9 each will be of 2 marks.
4. Q 10 to Q 19 each will be of 4 marks.
5. Q 20 to Q 23 each will be of 6 marks.
6. There will be no overall choice. There will be an internal choice in any 3 questions of 4 marks each and all questions of 6 marks.(Total of 7 internal choices)
7. Use of Calculator is not allowed.

Sr. No	Topic	Q. Carrying 1-Marks	Q. Carrying 2-Marks	Q. Carrying 4-Marks	Q. Carrying 6-Marks	Total Marks
1	Sets	1	-	1	-	05
2	Relations & Functions	1	-	1	-	05
3	Trigonometric Functions	1	2	1	-	09
4	Principle of Mathematical Induction	-	-	1	-	04
5	Complex numbers & Quadratic Equations	1	1	-	1	09
6	Linear Inequalities	-	-	-	1	06
7	Permutations & Combinations	1	-	1	-	05
8	Binomial Theorem	-	2	-	-	04
9	Sequence & Series	1	-	1	-	05
10	Straight lines	1	-	1	-	05
11	Conic Sections	1	-	1	-	05
12	Introduction to Three-dimensional Geometry	-	1	-	-	02
13	Limits & Derivatives	1	-	1	1	11
14	Mathematical Reasoning	-	2	-	-	04
15	Statistics	-	-	-	1	06
16	Probability	1	-	1	-	05
<b>Total Questions</b>		<b>1(10Parts)</b>	<b>8</b>	<b>10</b>	<b>4</b>	<b>23</b>
<b>Total Marks</b>		<b>10</b>	<b>16</b>	<b>40</b>	<b>24</b>	<b>90</b>

**1. Sets:**

Sets and their representations. Empty set, Finite & Infinite sets, Equal sets. Subsets, Subsets of the set of real numbers especially intervals (with notations). Power set. Universal set. Venn diagrams. Union and Intersection

of sets. Difference of sets. Complement of a set, Properties of complement sets.

## 2. Relations & Functions:

Ordered pairs, Cartesian product of sets. Number of elements in the Cartesian product of two finite sets. Cartesian product of the reals with itself (upto  $\mathbb{R} \times \mathbb{R} \times \mathbb{R}$ ).

Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. Function as a special kind of relation from one set to another. Pictorial representation of a function, domain, co-domain and range of a function. Real valued function of the real variable, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum and greatest integer functions with their graphs. Sum, difference, product and quotients of functions.

## 3. Trigonometric Functions:

Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the identity  $\sin^2 x + \cos^2 x = 1$ , for all  $x$ . Signs of trigonometric functions and sketch of their graphs. Expressing  $\sin(x \pm y)$  and  $\cos(x \pm y)$  in terms of  $\sin x$ ,  $\sin y$ ,  $\cos x$  &  $\cos y$ . Deducing the identities like following:

$$\tan(x \pm y) = \frac{\tan x \pm \tan y}{1 \mp \tan x \cdot \tan y}, \quad \cot(x \pm y) = \frac{\cot x \cdot \cot y \mp 1}{\cot y \pm \cot x}$$

$$\sin x + \sin y = 2 \sin \frac{x+y}{2} \cos \frac{x-y}{2}, \quad \cos x + \cos y = 2 \cos \frac{x+y}{2} \cos \frac{x-y}{2}$$

$$\sin x - \sin y = 2 \cos \frac{x+y}{2} \sin \frac{x-y}{2}, \quad \cos x - \cos y = -2 \sin \frac{x+y}{2} \sin \frac{x-y}{2}$$

Identities related to  $\sin 2x$ ,  $\cos 2x$ ,  $\tan 2x$ ,  $\sin 3x$ ,  $\cos 3x$  and  $\tan 3x$ .

General solution of trigonometric equations of the type  $\sin \theta = \sin \alpha$ ,  $\cos \theta = \cos \alpha$  and  $\tan \theta = \tan \alpha$ . Proofs and simple applications of sine and cosine formulae.

## 4. Principle of Mathematical Induction:

Process of the proof by induction, motivating the application of the method by looking at natural numbers as the least inductive subset of real numbers. The principle of mathematical induction and simple applications.

## 5. Complex Numbers and Quadratic Equations:

Need for complex numbers, especially  $\sqrt{-1}$ , to be motivated by inability to solve every quadratic equation. Brief description of algebraic properties of complex numbers. Argand plane and polar representation of complex numbers. Statement of Fundamental Theorem of Algebra, solution of quadratic equations in the complex number system. Square-root of a Complex number.

## 6. Linear Inequalities:

Linear inequalities, Algebraic solutions of linear inequalities in one variable and their representation on the number line. Graphical solution of linear inequalities in two variables. Solution of system of linear inequalities in two variables - graphically.

## 7. Permutations & Combinations :

Fundamental principle of counting, Factorial  $n(n!)$  Permutations and combinations, derivation of formulae and their connections, simple applications.

## 8. Binomial Theorem :

History, statement and proof of the binomial theorem for positive integral indices. Pascal's triangle , general and middle term in binomial expansion, simple applications.

## 9. Sequence and series:

Sequence and Series , Arithmetic Progression (A.P), Arithmetic Mean (A.M) , Geometric Progression ( G.P), general term of a G.P, sum of  $n$  terms of a G.P . Arithmetic and Geometric series, infinite G.P. and its sum. Geometric mean (G .M), relation between A.M and G.M, Sum to  $n$  term of the special series  $\sum n$  ,  $\sum n^2$  and  $\sum n^3$  .

## 10. Straight Lines :

Brief recall of 2-D from earlier classes, Shifting of origin. Slope of a line and angle between two lines .Various forms of equations of a line: parallel to axes, point-slope form, slop-intercept form, two-point form, intercept form and normal form ,General equation of a line. Equation of family of lines passing through the point of intersection of two lines. Distance of a point from a line.

## 11. Conic Sections :

Sections of a cone; circles, ellipse, parabola, hyperbola, a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section. Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equations of a circle;

## 12. Introduction to Three-dimensional Geometry:

Coordinate axes and coordinate planes in three dimensions.Coordinates of a point. Distance between two points and section formula.

## 13. Limits and Derivatives:

Derivative introduced as rate of change both as that of distance function and geometrically, intuitive idea of limit.

$$\lim_{x \rightarrow 0} \frac{\log_e(1+x)}{x}, \lim_{x \rightarrow 0} \frac{e^x - 1}{x}$$

Definition of derivative, relate it to slope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.

**14. Mathematical Reasoning:**

Mathematically acceptable statements. Connecting words/phrases—consolidating the understanding of “if and only if (necessary and sufficient) condition”, “implies”, “and/or”, “implied by”, “and”, “or”, “there exists” and their use through variety of examples related to real life and Mathematics, Validating the statements involving the connecting words—difference between contradiction, converse and contrapositive.

**15. Statistics:**

Measure of dispersion: mean deviation, variance and standard deviation of ungrouped/grouped data. Analysis of frequency distributions with equal means but different variances.

**16. Probability:**

Random experiments: outcomes, sample spaces( set representation).Events: Occurrence of events, ‘not’, ‘and’ & ‘or’ events, exhaustive events, mutually exclusive events. Axiomatic (set theoretic) probability, connections with the theories of earlier classes. Probability of an event, probability of ‘not’, ‘and’ & ‘or’ events.

**Note:- The subtopics which are printed in the book published by Punjab School Education Board but are not mentioned in syllabus, should be considered as part of syllabus.**



**CLASS - XI**  
**13. BUSINESS ORGANISATION & MANAGEMENT**  
**(HUMANITIES GROUP)**

**Time: 3 Hrs**

**Theory: 90 Marks**  
**CCE: 10 Marks**  
**Total: 100 Marks**

**STRUCTURE OF QUESTION PAPER**

1. The question paper will cover whole of the syllabus.
2. 26 Questions will be set in the question paper. Student will attempt only 24 Questions.
3. All units of the syllabus should be given adequate representation in the question paper.

**SECTION -A**

4. Question No. 1 consist of 8 sub part of 1 mark each. Answer of each part should be given in 1-15 words. Objective type questions may include questions with one word or one sentence answer / fill in the blanks / multiple choice type questions/true or false.

**SECTION -B**

5. Question No 2 to 10 will carry 2 marks each. Answer of each question should be given in 5-10 lines.

**SECTION -C**

6. Do any seven questions from this section. Question No 11 to 22 will carry 4 marks each. Student will attempt 10 questions out of 12 questions. Answer of each question should be given in 15-20 lines.

**SECTION -D**

7. Question No. 23 to 26 will carry 6 marks each with internal choice. Answer of each question should be given in 3-5 pages. Internal choice questions should not be set from the same unit.

**DETAIL OF QUESTIONS SET FROM EACH UNIT**

		<b>Section-A</b>	<b>Section-B</b>	<b>Section-C</b>	<b>Section-D</b>
<b>Unit No.</b>	<b>Name of the unit</b>	<b>1 mark question</b>	<b>2marks question</b>	<b>4 marks questions</b>	<b>6 marks question</b>
1	Nature and Purpose of Business	1	1	1	(i) 1Q from unit 1 or 2 with 1Q from 3 or 4 as internal choice
2	Structure of Business	1	1	1	(ii) 1Q from 7 or 8 with 1Q from 9 or 10 Q. as internal choice.
3	Service Sector and Business	1	1	1	(iii) 1Q from unit 5 with 1Q from unit 6 as internal choice.
4	Social Responsibility of Business and Business Ethics	1		1	iv) 1Q from unit 5 or 6 with 1Q from unit 8 or 10 as internal choice.

5	Forms and Formation of Business Enterprises	1	1	2	
6	Sectoral Organisation of Business	1	1	1	
7	Formation of a Company	1	1	1	
8	Internal Trade		1	2	
9	Sources of Business Finance	1	1	1	
10	External Trade		1	1	
	<b>Total</b>	<b>08</b>	<b>09</b>	<b>10</b>	<b>04</b>

## SYLLABUS FOUNDATION OF BUSINESS

### UNIT-1 NATURE AND PURPOSE OF BUSINESS

- a) Concept and Characteristics of Business.
- b) Business-Profession and Employment- Distinctive Features.
- c) Objectives of Business -Economic, Social and Human.
- d) Business Risks – Nature and Causes.
- e) Role of Profit in Business.
- f) A brief outline of the evolution of business activities in India.

### UNIT-2 STRUCTURES OF BUSINESS

- a) Classification of Business Activities, Industry and Commerce.
- b) Industry and Types: Primary and Secondary.
- c) E-Commerce-Meaning, Opportunities and Benefits, Resources required for successful E-Commerce implementation, Security and Safety for Business Transactions.
- d) Outsourcing of Services: Nature, Need and Types, Financial Services, Advertising, Courier Services, Customer Support Services.

### UNIT-3 SERVICE SECTOR AND BUSINESS

- a) Banking: Types of Banks, Functions of Commercial Banks.
- b) Insurance: Principles, Types; Life, General Fire, Marine and Insurance of other Risks, Health Insurance, Fidelity Insurance.
- c) Communication: Postal, Telecom.
- d) Warehousing : Types and Functions

### UNIT-4 SOCIAL RESPONSIBILITY OF BUSINESS AND BUSINESS ETHICS

- a) Concept of the Social Responsibility.
- b) Case for Social Responsibility and Human Rights.
- c) Responsibility towards various Interest Groups, Investors, Employees, Consumers, Government and Community in General.

### UNIT-5 FORMS AND FORMATION OF BUSINESS ENTERPRISES

- a) Meaning, Features, Merits and Limitations of following Forms -
  - a. Sole Proprietorship
  - b. Joint Hindu Family Business
  - c. Partnership-Partnership Deed (main clauses), Types of Partners, Partnership Formation, Registration
  - d. Co-operative Societies
  - e. Company: Types of Companies-Private, Public and Deemed Public Privileges of Private Company.

- b) Choice of Form of Business Enterprise.
- c) Factors to be considered for starting a Business.
- d) Scope for setting up small Business Enterprises.

#### **UNIT-6 SECTORAL ORGANIZATION OF BUSINESS**

- a) Meaning, Features, Merits and Limitations of following:- Private Sector, Public Sector and Joint Sector.
- b) Forms of Public Sectors Enterprises :
  - a. Departmental Undertaking
  - b. Starting Co-operative.
  - c. Government Company.
- c) Global Enterprise (multi-national company)

### **CORPORATE ORGANISATION, FINANCE AND TRADE**

#### **UNIT-7 FORMATION OF COMPANY**

- a) Stages in the Formation of the Company
  - i. Promotion
  - ii. Incorporation
  - iii. Commencement of Business.

#### **UNIT-8 INTERNAL TRADES**

- a) Meaning and Types,
- b) Wholesale Trade – Functions and Services.
- c) Retail Trade Organization : Meaning, Types, Features, Merits and Limitations
  - i. Itinerant and Fixed Shop
  - ii. Departmental Store, Chain Shop, Mail Order Business, Franchise, Consumers, Co-operative Store (including super bazaar).
- d) Direct Marketing, Tele-Marketing, Internal Marketing.

#### **UNIT-9 SOURCES OF BUSINESS FINANCE**

- a) Nature and Significance.
  - a. Sources of Finance
  - b. Equity and Preference Shares.
  - c. Debentures/Bonds Types: (Secured, Unsecured, Convertible and Non-Convertible).
  - d. Retained Profits.
  - e. Public Deposits
  - f. Loan from Finance Institutions.
- b) International Sources : GDR's, FDI

#### **UNIT-10 EXTERNAL TRADES**

- a) Nature and Importance.
- b) Means of Export Promotion.
- c) Incentive Available.
- d) Export- Import Procedure and Documentation.
- e) Nature and Importance of Export Processing Zones and Economic Zones.

**CLASS - XI**  
**14. BOOK KEEPING AND ACCOUNTANCY**  
**(HUMANITIES GROUP)**

**Time: 3 Hrs**

**Theory: 90 Marks**  
**CCE: 10 Marks**  
**Total:100 Marks**

**STRUCTURE OF QUESTION PAPER (THEORY)**

1. The question paper will cover whole of the syllabus.
2. There are 4 sections in the question paper i.e. A, B,C and D.
3. 26 Questions will be set in the question paper. Out of which students will have to attempt 24 questions.
4. All units of the syllabus should be given adequate representation in the question paper.
5. There is no word, line or Page limit for numerical questions.
6. The use of non-programmable simple calculator is allowed.

**SECTION-A**

7. Question No. 1 consists of 10 sub parts carrying 1 mark each. Answer of each part should be given in 1-15 words. Objective type questions may include questions with one word or one sentence answer/fill in the blanks/true or false/multiple choice type questions.

**SECTION-B**

8. Question No. 2 to 11 (of which 3 questions will be numerical and 3 question will be theoretical) will carry 2 marks each. Answer of theoretical questions should be given in 5 to 10 lines.

**SECTION-C**

9. Question No. 12 to 22 will carry 4 marks each. Question No.12 to 22 (of which 6 questions will be numerical and 5 questions will be theoretical) and students will attempt any 9 questions out of these 11 questions.

**SECTION-D**

10. Question No. 23 to 26 will carry 6 marks each with internal choice. Of these, any two questions will have internal choice between therotical and numerical questions and other two will have only numerical question as internal choice. Answer of theoritical questions should be given in 3-4 pages of the answer book.

**DETAIL OF QUESTIONS SET FROM EACH UNIT**

<b>Unit No.</b>	<b>Name of the unit</b>	<b>1Mark Question</b>	<b>2 Marks Question</b>	<b>4 marks Question</b>	<b>6 marks Question</b>
1.	Introduction to Accounting	1	1	1	1
2.	Theory Base of Accounting	1	1	2	
3.	Recording of Business transactions	1	1	1	2
4.	Trial Balance and Rectification of errors	1	1	1	
5.	Depreciation, Provisions and Reserves	1	1	1	1
6.	Bank Reconciliation Statement	1	1	1	1
7.	Accounting for bill of exchange transaction	1	1	1	1
8.	Financial Statements	1	1	2	1
9.	Computer in Accounting	1	1	1	1
10.	Accounting and Data Base System	1	1	1	

## **SYLLABUS**

### **Unit-1. INTRODUCTION TO ACCOUNTING**

- i) Accounting:- Meaning, Objectives, Accounting as Source of Information, Internal and External Users of Accounting Information and their Needs, Advantages and Limitations of Accounting, Difference between Book Keeping and Accountancy.
- ii) Qualitative Characteristics of Accounting Information-Reliability, Relevance, Understandability and Comparability.
- iii) Basic Accounting Terms-Asset, Liability, Capital, Expense, Income, Expenditure, Revenue, Debtors, Creditors, Goods, Cost, Gain, Stock, Purchase, Sales, Loss, Profit, Voucher, Discount: Cash and Trade Discount, Transaction, Drawings, Equity.

### **Unit-2. THEORY BASE OF ACCOUNTING**

- i) Accounting Concepts:- Entity Money Measurement, Going Concern, Accounting Period, Cost Concept, Dual Aspect, Revenue Recognition (realisation), Matching, Accrual.
- ii) Accounting Conventions:-Full Disclosure, consistency, Conservation, Materiality, Objectives.
- iii) Accounting Standards:- Meaning, Nature, Need and List of Indian Accounting Standards.
- iv) Accounting Mechanism:- Single Entry and Double Entry.
- v) Accounting Cycle:- From Recording of Business Transaction to Preparation of Trial Balance and Final Accounts.
- vi) Bases of Accounting:- Cash Basis, Accrual Basis.

### **Unit-3. RECORDING OF BUSINESS TRANSACTIONS**

- i) Voucher and Transactions:- Origin of Transactions-Source Documents and Vouchers, Preparation of Voucher; Accounting Equation: Approach, Meaning and Analysis of Transaction using Accounting Equation; Rules of Debit and Credit.
- ii) Recording of Transactions: Books of Original Entry-Journal, Special Purpose Books: (i) Cash Book-Simple, Cash book with Bank Column and Petty Cash Book, (ii) Purchase Book, Sales Book, Purchase Returns Book, Sales Returns Book, Bill Receivable Book. Bills Payable Book; Ledger Meaning, Utility, Format; Posting from Journal and Subsidiary Books; Balancing of Accounts.

### **Unit-4. TRIAL BALANCE AND RECTIFICATION OF ERRORS**

- i) Trial-Balance; Meaning, Objectives, Advantages and Methods of Preparation.
- ii) Errors: Types of Errors; Errors Affecting Trial Balance; Errors not affecting Trial Balance.
- iii) Detection and Rectification of Errors (one sided and two sided), Use of Suspense Account.

### **Unit-5. DEPRECIATION, PROVISIONS AND RESERVES**

- i) Depreciation: Meaning and Need for Charging Depreciation, Factors Affecting Depreciation, Methods of Depreciation- Straight Line Method, Written Down Value Method (excluding change in method), Method of Recording Depreciation Charging to Asset Account, Creating Provision for Depreciation/Accumulated Depreciation Account; Treatment of Disposal of Asset.
- ii) Provision and Reserves: Meaning, Importance, Difference between Provisions and Reserves, Types of Reserves; Revenue Reserve, Capital Reserve, General Reserve, Specific Reserve and Secret Reserves.

**Unit-6. BANK RECONCILIATION STATEMENT**

Meaning, Need, Preparation, Correct Cash Balance.

**Unit-7. ACCOUNTING FOR BILLS OF EXCHANGE TRANSACTION**

- i) Bills of Exchange and Promissory Note: Definition, Feature, Parties, Specimen and Distinction.
- ii) Important Terms: Terms of Bill, Concept of Accommodation Bill, Days of Grace, Date of Maturity, Bill at Sight, Bill after Date, Negotiation, Endorsement, Discounting of Bill. Dishonor, Retirement and Renewal of a Bill, Insolvency of Acceptor.
- iii) Accounting Treatment of Bill Transaction.

**Unit- 8. FINANCIAL STATEMENTS**

- i) Financial Statements: Meaning and Objectives.
- ii) Distinction between Capital Expenditure and Revenue Expenditure
- iii) Balance Sheet: Need, Grouping, Marshaling of Assets and Liabilities, Vertical Presentation of Financial Statement.
- iv) Adjustments in Preparation of Financial Statements with respect to Closing Stock, Outstanding Expenses, Prepaid Expenses, Accrued Income, Income Received in Advance, Depreciation, Bad Debts, Provision for Doubtful Debts, Provision for Discount on Debtors, Managers Commission.
- v) Preparation of Trading and Profit & Loss Account and Balance Sheet of Sole Proprietorship.

**Unit-9. COMPUTER IN ACCOUNTING**

- i) Introduction to Computer and Accounting Information System (AIS)
- ii) Applications of Computers in Accounting: Automation of Accounting Process, Designing Accounting Reports, MIS reporting Data Exchange with other Information Systems.
- iii) Comparison of Accounting Processes in Manual and Computerized Accounting, Highlighting Advantages and Limitation of Automation.
- iv) Sourcing of Accounting System: Readymade and Customized and Tailor Made Accounting Systems. Advantages and Disadvantages of each Option.

**Unit-10. ACCOUNTING AND DATABASE SYSTEM**

- i) Accounting and Database Management System
- ii) Concept of Entity and Relationship: Entities and Relationships in an Accounting System:  
Designing and creating Simple Tables, Forms, Queries and Reports in the context of Accounting System.

**CLASS - XI**  
**15. POLITICAL SCIENCE**

**Time: 3 hrs**

**Theory: 90 Marks**

**CCE: 10 Marks**

**Total: 100 Marks**

**STRUCTURE OF QUESTION PAPER**

1. All questions are compulsory.
2. The question paper will comprise of 4 sections A, B, C and D of four questions with 34 sub parts to be attempted.
3. **All units of the syllabus should be given adequate representation in the question paper.**

**SECTION- A**

**Objective Type Questions:** Question No. 1 will have ten Parts (I to X) and each Part will carry 1 mark. This section will include questions with one word answer/ fill in the blank/ true or false/multiple choice type questions.

**10×1= 10**

**SECTION- B**

**Very Short Answer Type Questions:** Question No. 2 comprises of 12 sub parts (questions I to XII) carrying 2 marks each. Answer to each question should be in about 20-30 words. All Questions are compulsory. **12×2= 24**

**SECTION- C**

**Short Answer Type Questions:** Question No. 3 comprises of 10 sub parts (I to X) out of which students have to attempt any 8 question carrying 4 marks each. Answer to each question should be in about 50-60 words.

**8×4= 32**

**SECTION- D**

**Long Answer Type Questions:** Question No. 4 comprises of 4 sub parts (questions I to IV) carrying 6 marks each. Answer to each question should be in about 150-200 words. There will be 100% internal choice in these questions.

**4×6= 24**

Typology of Questions	Number of Questions	Marks Division	Division of Syllabus		Total Marks
			Part A	Part B	
<b>Section-A Objective Type Questions</b>	Q.1 (Q.I to X)	01 mark	5	5	10 Marks
<b>Section-B Very Short Answer Type questions</b>	Q.2 (Q.I to XII)	02 marks	6	6	24 Marks
<b>Section-C Short Answer Type Questions</b>	Q.3 (Q.I to X) Attempt any eight	04 marks	5	5	32 marks
<b>Section-D Long Answer Type Questions</b>	Q.4 (Q.I to IV) 100% internal choice	06 marks	2 100% internal choice	2 100% internal choice	24 Marks
<b>Total</b>	<b>34/36</b>	<b>---</b>	<b>18</b>	<b>18</b>	<b>90</b>

**Note:- Weightage to each unit must be given in each type of questions as appropriate.**

## **SYLLABUS**

### **PART-A**

#### **FOUNDATIONS OF POLITICAL SCIENCE**

##### **Unit-I Meaning, Scope and Significance of Political Science**

- a) Meaning of Political Science
- b) Scope and significance of Political Science.
- c) Relationship of political science with History, Economics, Sociology and Ethics.

##### **Unit-II Citizen and his Rights and Duties**

- a) Citizen and citizenship
- b) Meaning of rights and duties
- c) Relation between rights and duties

##### **Unit-III Basic concepts**

- a) Law-meaning and its kinds.
- b) Liberty-meaning, kinds and safeguards.
- c) Equality-meaning, kinds, liberty and equality.
- d) Justice

##### **Unit-IV Society, State and Nation**

- a) State and its attributes.
- b) Difference between State and Society, State and Government, State and Nation.
- c) State and Associations.

##### **Unit-V Classification of constitutions and Forms of Governments**

- a) Constitution: Meaning and Types, Rigid and Flexible, Written and Unwritten.
- b) Forms of Governments:
  - a. Democratic And Authoritarian (Dictatorial)
  - b. Parliamentary and Presidential
  - c. Unitary and Federal

##### **Unit-VI Organs of Government**

- a) Executive
  - a. Types of Executive
  - b. Functions.
- b) Legislature
  - a. Types of Legislature-Unicameral & Bicameral
  - b. Functions.
- c) Judiciary
  - a. Importance and Functions
  - b. Independence of the Judiciary



## **PART-B**

### **INDIAN CONSTITUTION AND GOVERNMENT**

#### **Unit-VII Basic Principles of the Indian Constitution**

- a) Preamble and salient features of the Indian Constitution.

#### **Unit-VIII Fundamental Rights and Directive Principles of State Policy**

- a) Fundamental Rights-Nature and Kinds.
- b) Directive Principles of State Policy-Importance and Sanctions behind them.
- c) Distinction and relationship between Fundamental Rights and Directive principles.
- d) Fundamental Duties.

#### **Unit-IX Indian Federal System**

- a) Nature of Indian Federation
- b) Union-State relations: Legislative, Administrative and Financial.

#### **Unit-X Union Government**

- a) The Union Executive-President, Prime Minister and Council of Ministers.
- b) The Union Legislature.

#### **Unit-XI The State Government**

- a) State Executive- Governor, Chief Minister and Council of Ministers
- b) State Legislature
- c) District Administration

#### **Unit-XII Indian Judicial System**

- a) The Supreme Court
- b) State High Court

**CLASS - XI**  
**16. SOCIOLOGY**

**Time: 3 Hrs**

**Theory: 90 Marks**  
**CCE: 10 Marks**  
**Total: 100 Marks**

**STRUCTURE OF QUESTION PAPER**

The question paper will comprise of 4 sections A, B, C and D of four questions with 32 sub parts to be attempted.

**SECTION- A**

**Objective Type Questions:** Question No. 1 will have ten Parts (I to X) and each Part will carry 1 mark. This section will include questions with one word answer/ fill in the blanks/ true or false/multiple choice type questions.

**1×10= 10**

**SECTION- B**

**Very Short Answer Type Questions:** Question No. 2 comprises of 10 sub parts (questions I to X) carrying 2 marks each. Answer to each question should be in about 20-30 words. All Questions are compulsory.

**2×10= 20**

**SECTION- C**

**Short Answer Type Questions:** Question No. 3 comprises of 6 sub parts (I to VI) carrying 4 marks each. Answer to each question should be in about 50-60 words.

**4×6= 24**

**SECTION- D**

**Long Answer Type Questions:** Question No. 4 comprises of 6 sub parts (questions I to VI) carrying 6 marks each. Answer to each question should be in about 100-150 words. Three will be 100% internal choice in these questions.

**6×6= 36**

**Note:- Weightage to each unit must be given in each type of questions as appropriate.**

Typology of Questions	Number of questions	Marks Division	Division of Syllabus		Total marks
			Part A Unit 1,2,3,	Part B Unit4,5,6	
A. Objective Type Questions	10	01 mark	5	5	10 Marks
B. Short Answer Type Questions Type I	10	02 marks	5	5	20 Marks
C. Short Answer Type Questions TypeII	06	04 marks	3	3	24 Marks
D. Long Answer Type Questions	06	06 marks	3	3	36 Marks
Total	32	---	16	16	90

**SYLLABUS**

**PART -A**

**Unit I- Origin and Development of Sociology**

1. Emergence of Sociology: Historical Background Meaning, Nature and Scope of Sociology.
2. Relationship of Sociology with Other Social Sciences: Political Science, History, Economics, Psychology and Anthropology.

### **Unit II- Basic Concepts in Sociology**

1. Society, Community and Association: Society – Meaning and Features, Relationship between Individual and Society; Community – Meaning and Features; Association – Meaning and Features, Difference between Society, Community and Association.
4. Social Groups: Meaning and Features, Types – Primary and Secondary group, In-group and Out-group.

### **Unit III- Culture and Socialisation**

5. Culture: Meaning and Features, Material and Non-Material culture.
6. Socialisation: Meaning, Socialisation as a Process of Learning, Agencies of Socialisation: Formal and Informal Agencies.

## **PART -B**

### **Unit IV- Social Institutions**

7. Marriage, Family and Kinship.
8. Polity, Religion, Economy and Education.

### **Unit V- Social Structure, Social Stratification and Social Change**

9. Social Structure: Meaning, Features and Elements – Status and Role.
10. Social Stratification: Concept, Forms, Caste and Class, Features and Differences.
11. Social Change: Meaning, Features and Factors – Demographic, Educational and Technological.

### **Unit VI- Founding Fathers of Sociology**

12. Western Sociological Thinkers: Auguste Comte – Positivism, Law of Three Stages, Karl Marx – Class and Class conflict, Emile Durkheim –Social Facts, Division of Labour, Max Weber – Social Action, Types of Authority, Sociology of Religion.

## CLASS-XI

### 17. PUBLIC ADMINISTRATION

**Time: 3Hrs**

**Theory: 90 Marks**

**CCE: 10 Marks**

**Total: 100 Marks**

#### STRUCTURE OF QUESTION PAPER

***All questions are compulsory.***

The question paper will comprises 4 sections A, B, C and D of 27 questions in total. Student will attempt 25 questions. The question paper will have:

#### SECTION-A

**Objective Type Questions:** This section will include questions with one word answer/ fill in the blank/ true or false/ multiple choice type questions. Question No. 1 will have ten Parts (A to J) and each Part will carry 1 mark.

**10×1= 10**

#### SECTION-B

**Very Short Answer Type Questions:** This section will have 12 questions (from Q no.2 to 13) Each question will carry 2 marks. All Questions are compulsory. Answer of each question should be in 20-30 words.

**12×2= 24**

#### SECTION-C

**Short Answer Type Questions:** This section will have 10 questions from 14 to 23. Each question will carry 4 marks Student have to attempt any eight out of ten questions Each question should be in 50-60 words.

**8×4=32**

#### SECTION-D

**Long answer Type Questions:** This section will have 4 questions (24 to 27) with internal choice. Each question will carry 6 marks. Answer of each question should be in 150-200 words. There will be 100% internal choice in these questions.

**6×4= 24**

**Note:- Weightage to each unit must be given in each type of questions as appropriate.**

Typology of Questions	Number of questions	Marks Division	Total marks	Division of Syllabus	
				Part A	Part B
<b>A. Objective Type Questions A to J</b>	1 (In Parts A to J)	10 1 mark each part	10 Marks	5	5
<b>B. Very Short Answer questions</b>	12	02 marks each	24 Marks	6	6
<b>C. Short Answer Questions (To be attempted = 8)</b>	10 To be attempted 8	04 marks	32 marks	5	5
<b>D. Long Answer Questions (with internal choice)</b>	4	06 marks	24 Marks	2 (Internal choice)	2 (Internal choice)
<b>Total</b>			<b>90</b>		

**SYLLABUS**  
**ELEMENTS OF PUBLIC ADMINISTRATION**

**Unit-I**

- a) Meaning, Nature, Scope & Significance of Public Administration.
- b) Public Administration and other Social Sciences.
- c) Public Administration and Private Administration.

**Unit-II**

- a) Chief Executive: Kinds, Functions.
- b) Staff and Line Agencies.
- c) Bureau and Board Type.

**Unit III**

- a) Department, Public Corporation and Public Company
- b) Public Administration and Legislature.
- c) Public Administration and Judiciary.

**Unit-IV**

- a) Public Relations.
- b) Public Administration and Citizen

**INDIAN ADMINISTRATION**

**Unit-V**

- a) Salient Features of the Indian Administrative System.
- b) Fundamental Rights and Directive Principles of State Policy.

**Unit-VI**

- a) Relations between the Union and the States.
- b) The State Executive- President, Vice-President, Prime Minister and the Council of Ministers.

**Unit VII**

- a) Organisation and working of the Ministry of Home Affairs.
- b) The State Executive and Council of Ministers.

**Unit VIII**

- a) Organisation and Functions of the Department of Education at the State Level.
- b) District Administration with special reference to the Role of Deputy Commissioner.

CLASS - XI

18. ਧਰਮ

ਸਮਾਂ: 3 ਘੰਟੇ

ਲਿਖਤੀ ਪੇਪਰ: 90 ਅੰਕ

ਸੀ.ਸੀ.ਈ.: 10 ਅੰਕ

ਕੁੱਲ: 100 ਅੰਕ

ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ-ਰੇਖਾ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ 32 ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ।
2. ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਲਾਜ਼ਮੀ ਹੋਣਗੇ।
3. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਚਾਰ ਭਾਗਾਂ ਵਿੱਚ ਵੰਡਿਆ ਹੋਵੇਗਾ। ਹਰ ਭਾਗ ਸਾਰੇ ਪਾਠ-ਕ੍ਰਮ ਤੇ ਅਧਾਰਿਤ ਹੋਵੇਗਾ।
- ਭਾਗ-I** ਵਿੱਚ ਦਸ (10) ਵਸਤੂਨਿਸ਼ਠ ਪ੍ਰਸ਼ਨ (1 ਤੋਂ 10) ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ ਇੱਕ ਅੰਕ ਦਾ ਹੋਵੇਗਾ।  
ਵਸਤੂਨਿਸ਼ਠ ਪ੍ਰਸ਼ਨ ਇੱਕ ਸ਼ਬਦ ਤੋਂ ਇਕ ਵਾਕ ਤੱਕ ਦੇ ਉੱਤਰ ਵਾਲੇ ਜਾਂ ਹਾਂ/ਨਾਂ ਜਾਂ ਖਾਲੀ ਥਾਂ ਭਰੋ ਜਾਂ ਠੀਕ/ਗਲਤ ਜਾਂ ਬਹੁ-ਭਾਂਤੀਉੱਤਰਾਂ ਵਾਲੇ, ਕਿਸੇ ਵੀ ਤਰ੍ਹਾਂ ਦੇ ਹੋ ਸਕਦੇ ਹਨ।  $10 \times 1 = 10$
- ਭਾਗ-II** ਵਿੱਚ ਅੱਠ (8) ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲੇ (ਟਾਈਪ I) ਪ੍ਰਸ਼ਨ (11 ਤੋਂ 18) ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ 2 ਅੰਕ ਦਾ ਹੋਵੇਗਾ ਜਿਸ ਦਾ ਉੱਤਰ 30-35 ਸ਼ਬਦਾਂ ਵਿੱਚ ਹੋਵੇ।  $8 \times 2 = 16$
- ਭਾਗ-III** ਵਿੱਚ ਦਸ (10) ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲੇ (ਟਾਈਪ II) ਪ੍ਰਸ਼ਨ (19 ਤੋਂ 28) ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ 4 ਅੰਕ ਦਾ ਹੋਵੇਗਾ, ਜਿਸ ਦਾ ਉੱਤਰ 60 ਤੋਂ 70 ਸ਼ਬਦਾਂ ਵਿੱਚ ਹੋਵੇ। 10 ਪ੍ਰਸ਼ਨਾਂ ਵਿੱਚੋਂ, ਤਿੰਨ ਪ੍ਰਸ਼ਨ ਅੰਦਰੂਨੀ ਛੋਟ ਵਾਲੇ ਹੋਣਗੇ।  $10 \times 4 = 40$
- ਭਾਗ-IV** ਵਿੱਚ ਚਾਰ (4) ਅੰਦਰੂਨੀ ਛੋਟ ਵਾਲੇ ਨਿਬੰਧਾਤਮਕ ਪ੍ਰਸ਼ਨ (29 ਤੋਂ 32) ਪੁੱਛੇ ਜਾਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ 6 ਅੰਕ ਦਾ ਹੋਵੇਗਾ, ਜਿਸ ਦਾ ਉੱਤਰ, ਉੱਤਰ ਪੱਤਰੀ ਦੇ  $1\frac{1}{2}$  ਪੰਨੇ ਤੋਂ 2 ਪੰਨਿਆਂ ਦਾ ਹੋਵੇ।  $4 \times 6 = 24$

ਪਾਠ-ਕ੍ਰਮ ਦੇ ਭਾਗਾਂ ਅਨੁਸਾਰ ਪ੍ਰਸ਼ਨਾਂ ਅਤੇ ਅੰਕਾਂ ਦੀ ਵੰਡ

ਪ੍ਰਸ਼ਨਾਂ ਦੀ ਕਿਸਮ	ਅੰਕ ਪ੍ਰਤੀ ਪ੍ਰਸ਼ਨ	ਪ੍ਰਸ਼ਨਾਂ ਦੀ ਗਿਣਤੀ	ਪਾਠ-ਕ੍ਰਮ ਦੇ ਭਾਗਾਂ ਅਨੁਸਾਰ ਪ੍ਰਸ਼ਨਾਂ ਦੀ ਵੰਡ		ਕੁੱਲ ਅੰਕ
			ਭਾਗ 'ਉ'	ਭਾਗ 'ਅ'	
ਵਸਤੂ ਨਿਸ਼ਠ	1 ਅੰਕ	10	5	5	10
ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲੇ (ਟਾਈਪ I)	2 ਅੰਕ	08	3	5	16
ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲੇ (ਟਾਈਪ II)	4 ਅੰਕ	10	5	5	40
ਵੱਡੇ ਉੱਤਰਾਂ ਵਾਲੇ	6 ਅੰਕ	04	2	2	24
<b>ਕੁੱਲ</b>		32	15	17	90

ਪਾਠ-ਕ੍ਰਮ

ਭਾਗ (ਉ)

ਪਵਿੱਤਰ ਵਿਅਕਤੀਆਂ ਦੀਆਂ ਜੀਵਨੀਆਂ

- ਇਕਾਈ 1. ਭਗਵਾਨ ਕ੍ਰਿਸ਼ਨ, ਭਗਵਾਨ ਮਹਾਂਵੀਰ, ਭਗਵਾਨ ਮਹਾਤਮਾ ਬੁੱਧ ਅਤੇ ਸ਼੍ਰੀ ਸ਼ੰਕਰਾਚਾਰੀਆ।
- ਇਕਾਈ 2. ਯਸੂ ਮਸੀਹ ਅਤੇ ਹਜ਼ਰਤ ਮੁਹੰਮਦ ਸਾਹਿਬ।
- ਇਕਾਈ 3. ਭਗਤ ਕਬੀਰ, ਸ਼੍ਰੀ ਗੁਰੂ ਨਾਨਕ ਦੇਵ, ਸ਼੍ਰੀ ਚੈਤੰਨਆਂ, ਸ਼੍ਰੀ ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਅਤੇ ਸ਼੍ਰੀ ਰਾਮ ਕ੍ਰਿਸ਼ਨ।

ਭਾਗ (ਅ)

ਪਵਿੱਤਰ ਗ੍ਰੰਥਾਂ ਦਾ ਅਧਿਐਨ

ਇਕਾਈ 1 ਹਿੰਦੂ ਧਰਮ, ਜੈਨ ਧਰਮ ਅਤੇ ਬੁੱਧ ਧਰਮ:

ਮਹਾਂਭਾਰਤ ਦੇ ਚੋਣਵੇਂ ਅੰਸ਼, ਮੰਨੂ ਸਿਮਰਤੀ, ਵਿਸ਼ਨੂੰ ਸਿਮਰਤੀ, ਭਾਗਵਦਗੀਤਾ, ਉਪਨਿਸ਼ਦ, ਮਹਾਂਨਿਰਵਾਣ, ਤੰਤਰ, ਇਹਨਾਂ ਗ੍ਰੰਥਾਂ ਦੇ ਚੋਣਵੇਂ ਅੰਸ਼ਾਂ ਵਿੱਚ ਪ੍ਰਯੋਗ ਹੋਏ ਸੰਕਲਪ।

ਅਚਾਰੰਗ-ਸੂਤਰ, ਕਪਲ ਸੂਤਰ, ਉੱਤਰ ਧਿਆਨ ਸੂਤਰ, ਸੰਨਯਾਤ ਨਿਕਾਇਆ, ਧਮਪਦ, ਮਧਿਆਮਿਕਾ, ਮਹਾਂ ਵਨਗਾ, ਮਹਾਂ ਮੰਗਲ ਸੂਤਰ, ਬੁਧਚਰਿਆ ਅਵਤਾਰ, ਅਰਹਤ ਦਾ ਸੰਕਲਪ, ਅਸ਼ਟਾਂਗ ਮਾਰਗ, ਬੋਧੀ ਸਤਵ, ਸੰਘ, ਪੰਚ ਸਕੰਧ, ਨਿਰਵਾਣ।

**ਇਕਾਈ 2      ਜੁਡਾਇਜ਼ਮ, ਇਸਾਈ ਮਤ ਅਤੇ ਇਸਲਾਮ:**

ਪੁਰਾਣੀ ਬਾਈਬਲ ਦੇ ਚੋਣਵੇਂ ਅੰਸ਼, ਦਸ ਆਦੇਸ਼, ਨਵੀਂ ਬਾਈਬਲ ਦੇ ਚੋਣਵੇਂ ਅੰਸ਼, ਅੱਲ੍ਹਾ ਦਾ ਸੰਕਲਪ।

**ਇਕਾਈ 3      ਸਿੱਖ ਧਰਮ:**

ਸ਼੍ਰੀ ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਜੀ, ਸ਼੍ਰੀ ਗੁਰੂ ਅਮਰਦਾਸ ਜੀ, ਸ਼੍ਰੀ ਗੁਰੂ ਰਾਮਦਾਸ ਜੀ, ਸ਼੍ਰੀ ਗੁਰੂ ਅਰਜਨ ਦੇਵ ਜੀ, ਸ਼੍ਰੀ ਗੁਰੂ ਤੇਗ ਬਹਾਦਰ ਜੀ, ਬਾਬਾ ਸ਼ੇਖ ਫਰੀਦ ਜੀ, ਭਗਤ ਕਬੀਰ ਜੀ, ਭਗਤ ਰਵਿਦਾਸ ਜੀ, ਭਗਤ ਪੰਨਾ ਜੀ, ਸ਼੍ਰੀ ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਜੀ ਦੇ ਸ਼ਬਦ, ਚੋਣਵੀਆਂ ਰਚਨਾਵਾਂ ਵਿੱਚ ਪ੍ਰਯੁਕਤ ਸੰਕਲਪ।

**CLASS - XI**  
**19. MUSIC – VOCAL**

**Time: 3Hrs**

**Time: 20 mints (per student)**

**Theory: 40 Marks**  
**Practical: 50 Marks**  
**CCE: 10 Marks**  
**Total: 100 Marks**

**SYLLABUS (THEORY)**  
**STRUCTURE OF QUESTION PAPER (THEORY)**

1. The question paper will comprise of 23 questions in total.
2. The question paper will consist of three parts with each part representing both sections.

**Part-I** will consist of 9 objective type questions (Q. no. 1 to 9) carrying one mark each. Answer of these questions are in one word or in one sentence.

**9×1=9 Marks**

**Part-II** will consist of 10 short answer type questions (Q. no. 10 to 19) carrying three (3) marks each. Attempt any seven questions out of ten questions. Answer of each question should be given in 10-15 lines.

**7×3=21 Marks**

**Part-III** will consist of 4 long answer type questions (Q. no. 20 to 23) every questions carrying 5 marks each. Attempt any two questions out of four questions. Answer of each question should be given with in 150-200 lines.

**5×2=10 Marks**

**SECTIONWISE DISTRIBUTION OF QUESTIONS AND MARKS**

Type of Questions	Marks of per Question	No. of Questions	Section-wise Distribution of Questions		Total Marks
			Section-A	Section-B	
Objective Type	1 mark	09	5	4	<b>09</b>
Short Answer Type	3marks	10	6	4	<b>21</b>
Essay Type	5marks	04	2	2	<b>10</b>
<b>Total Questions</b>		<b>23</b>	<b>13</b>	<b>10</b>	<b>40</b>

**SYLLABUS (THEORY)**  
**Part-A**

- 1.) Definitions:-Sangeet, Dunni, alankar, aroh, avroh, pakar, sargamgeet, jatti, alaap, taal.
- 2.) Vadi swar, samvadi swar, Anuvadi swar, Vivadi swar, Varjit swar.
- 3.) Life sketches:-
  - (a) Proof: Sohan Singh
  - (b) D: Dalip Chander Bedi
- 4.) Knowledge of Patiala Kharana and Delhi Kharana.
- 5.) Classified the Indian music instruments. Tutt Vad, sushir vad, Avnad Vad, Ghan Vad.
- 6.) My favourite Subjet- Music.
- 7.) Naad, definition and types.
- 8.) Khaijal, invention of khayal and theirtypes.
- 9.) Knowledge of Music Instrument: Tanpura:- History and their body parts.



## **PART-B**

- (i) To write the notation, description of khayals in rag:-Kalayan, Allahiya Bilaval; Varinda vani sarang,
- (ii) Notation of Talas, Teentaal, Jhap taal and chhartaal along with Ikgun, and dugun Layakaries.

## **PAPER – B**

### **PRACTICAL (MUSIC VOCAL)**

#### **STRUCTURE OF QUESTION PAPER**

There should not be more than 9 (nine) students in a batch of a practical examination. The question paper will set by the examiner on the spot, while setting the question paper in practical, the examiner must consider the syllabus in theory and will follow the following instructions.

1. Demonstration/performance of any one Raag out of the prescribed syllabus. The choice of the Raag will be done by the student. It will be for 6 minutes and shall carry 10 marks.
2. Demonstration/performance of any one Raag out of the prescribed syllabus. The choice of the Raag will be of the examiner. It will be for 4 minutes and will carry 10 marks.
3. Demonstration of 'Taals' in Ekgun and Dugun layakaries by hand. It will be for 4 minutes and will carry 10 marks.
4. Recognition of one Taal and one Raag out of the prescribed syllabus. It will be for 2 minutes and will carry 10 marks.
5. Demonstration regarding Alankaar/Shabad/Bhajn It will also be for 4 minutes and will carry 10 marks.

#### **SYLLABUS (PRACTICAL)**

- (1) Five- Five alankars in Kalayan and Bilaval Thaats.
- (2) Chotta Khyal, alap, tans in Kalayan, Allahiya, Bilaval Varinda Vani Sarang raags.
- (3) Vadda Khyal in any Rags of your syllabus with alap and tans.
- (4) Tuning of string tanpura.
- (5) In any raag of your syllabus; Bhajan, shabad, Patriotic song.
- (g) Capability to demonstrate the following taals with bols and matras by hand in Ikgun and dugun layakaries.
  - i) Tadra taal
  - ii) Teen Taal
  - (iii) Jhap taal
  - (iv) Chhar taal

**Note:- The book Published and Prescribed by the Punjab School Education Board:-**

**Sangeet Gayan-11**

**CLASS - XI**  
**20. GURMAT SANGEET**

**Time: 3Hrs**

**Time: 20 mints (per student)**

**Theory: 40 Marks**  
**Practical: 50 Marks**  
**CCE: 10 Marks**  
**Total: 100 Marks**

**SYLLABUS (THEORY)**  
**STRUCTURE OF QUESTION PAPER (THEORY)**

1. The question paper will comprise of 23 questions in total.
2. The question paper will consist of three parts with each part representing both sections.

**Part-I** will consist of 9 objective type questions (Q. no. 1 to 9) carrying one mark each. Answer of these questions are in one word or in one sentence.

**9×1=9 Marks**

**Part-II** will consist of 10 short answer type questions (Q. no. 10 to 19) carrying three (3) marks each. Attempt any seven questions out of ten questions. Answer of each question should be given in 10-15 lines.

**7×3=21 Marks**

**Part-III** will consist of 4 long answer type questions (Q. no. 20 to 23) every questions carrying 5 marks each. Attempt any two questions out of four questions. Answer of each question should be given with in 150-200 lines.

**5×2=10 Marks**

**SECTIONWISE DISTRIBUTION OF QUESTIONS AND MARKS**

Type of Questions	Marks of per Question	No. of Questions	Section-wise Distribution of Questions		Total Marks
			Section-A	Section-B	
Objective Type	1 mark	09	5	4	<b>09</b>
Short Answer Type	3marks	10	6	4	<b>21</b>
Essay Type	5marks	04	2	2	<b>10</b>
<b>Total Questions</b>		<b>23</b>	<b>13</b>	<b>10</b>	<b>40</b>

**SYLLABUS (THEORY)**  
**PART-A**

1. Short Introduction of Gurmat Sangeet.
2. Introduction of instruments (Rabab and Tabla) used in Gurmat Sangeet.
3. Definitions of the following :-  
Sangeet, Naad, Shruti, Swar, Saptak, Thaat, Raag, Aroh, Avroh, Alankaar, Laya (Madhya, Drut, Vilambit), Taal, Avartan, Sam or Gur, Taali, Khalli, Matra, Sathai, Antra, Taan, Vaadi, Samvadi, Anuvadi, Vivadi.
4. Life sketch and contribution towards Gurmat Sangeet of the following:
  - (i) Bhai Mardana
  - (ii) Gian Singh Abtabad
  - (iii) Bhai Samund Singh

**PART-B**

1. Description of prescribed Raags: Bilawal, Kalyan, Asa.
2. Notations of prescribed Taals (Teen Taal, Dadra and Kehrava) Dugun and Chougun Laykaries.

3. Recognition of prescribed Raags from given Swarsangities.
4. Recognition of signs of Swar lipi of Bhatkhande.

**PAPER-B**  
**PRACTICAL (GURMAT SANGEET)**  
**STRUCTURE OF QUESTION PAPER**

There should not be more than 9 (nine) students in a batch of practical examination. The question paper will set by the examiner on the spot. While setting the question paper in practical, the examiner must consider the syllabus in theory and will follow the following instructions.

1. Demonstration/performance of Shabad Gayan in any one Raag out of the prescribed syllabus. The choice of the Raag will be done by the student. It will be for 6 minutes and shall carry 10 marks.
2. Demonstration/performance of Shabad Gagan in any one Raag out of the syllabus. The choice of the Raag will be done by the examiner. It will be for 4 minutes and will carry 10 marks.
3. Demonstration of 'Taals' in Ekgun and Dugun layakaries by hand. It will be for 4 minutes and will carry 10 marks.
4. Recognition of one Taal and one Raag out of the prescribed syllabus. It will be for 2 minutes and will carry 10 marks.
5. Demonstration regarding Alankar/Shandha/non detailed Raags. It will also be for 4 minutes and will carry 10 marks.

**SYLLABUS (PRACTICAL)**

1. Singing of Gurbani Shabad according to traditional style in prescribed Raags: Bilawal, Kalyan , Asa.
2. Five Alankars (Sargam and Aakar) in each Raag: Bilawal and Kalyan.
3. Knowledge of prescribed Taals:-  
Teen Taal, Dadra and Keharva.
4. Singing of Shandha and Pauri.
5. Knowledge of non detailed raags  
(i) Bharav (ii) Bhoopali in terms of Aroh, Avrohi and definition.

**CLASS - XI**  
**21. MUSIC – INSTRUMENTAL**

**Time: 3Hrs**

**Time: 20 mints (per student)**

**Theory: 40 Marks**  
**Practical: 50 Marks**  
**CCE: 10 Marks**  
**Total: 100 Marks**

**SYLLABUS (THEORY)**  
**STRUCTURE OF QUESTION PAPER (THEORY)**

1. The question paper will comprise of 23 questions in total.
2. The question paper will consist of three parts with each part representing both sections.

**Part-I** will consist of 9 objective type questions (Q. no. 1 to 9) carrying one mark each. Answer of these questions are in one word or in one sentence.

**9×1=9 Marks**

**Part-II** will consist of 10 short answer type questions (Q. no. 10 to 19) carrying three (3) marks each. Attempt any seven questions out of ten questions. Answer of each question should be given in 10-15 lines.

**7×3=21 Marks**

**Part-III** will consist of 4 long answer type questions (Q. no. 20 to 23) every questions carrying 5 marks each. Attempt any two questions out of four questions. Answer of each question should be given with in 150-200 lines.

**5×2=10 Marks**

**SECTIONWISE DISTRIBUTION OF QUESTIONS AND MARKS**

Type of Questions	Marks of per Question	No. of Questions	Section-wise Distribution of Questions		Total Marks
			Section-A	Section-B	
Objective Type	1 mark	09	5	4	<b>09</b>
Short Answer Type	3marks	10	6	4	<b>21</b>
Essay Type	5marks	04	2	2	<b>10</b>
<b>Total Questions</b>		<b>23</b>	<b>13</b>	<b>10</b>	<b>40</b>

**SYLLABUS (THEORY)**  
**PART-A**

1. Definitions:-  
Sangeet, Dunni, Alankar, Taal, Jhala, Aroh, Avroh, Pakar, Alaap, Toras.
2. Different bools of mizrav:- Akarsh parhar, Apakarsh parhar,
3. Vadi Swar, Samvadi swar, Anuvadiswar, Vivadi Swar, Varjit swar.
4. Life sketches:-
  - (i) Pt: Vishnu Naryan Bhatkhande.
  - (ii) Sri Narinder Narula.
5. Classified the India music Instruments:- Tutt vad, sushir vad, Avnad vad, Ghan vad.
6. My favourite subject Music.
7. Knowledge of music instruments:- Sitar, History and their body parts.
8. Naad, definition and types.
9. Gut:-Maseet Khani gut, Rajakhani gut.

**PAPER – B**  
**PRACTICAL (MUSIC INSTRUMENTAL)**  
**STRUCTURE OF QUESTION PAPER**

There should not be more than 9 (nine) students in a batch of a practical examination. The question paper will set by the examiner on the spot, while setting the question paper in practical, the examiner must consider the syllabus in theory and will follow the following instructions.

1. Demonstration/performance of any one Raag out of the prescribed syllabus. The choice of the Raag will be done by the student. It will be for 6 minutes and shall carry 10 marks.
2. Demonstration/performance of one Raag out of the prescribed syllabus. The choice of the Raag will be of the examiner. It will be for 4 minutes and will carry 10 marks.
3. Demonstration of Taals in Ekgun and Dugun layakaries by hand. It will be for 4 minutes and will carry 10 marks.
4. Recognition of one Taal and one Raag out of the prescribed syllabus. It will be for 2 minutes and will carry 10 marks.
5. Demonstration regarding Alankaar/dun/ nationalanthem It will also be for 4 minutes and will carry 10 marks.

**SYLLABUS (PRACTICAL)**

- (a) Alankars in kalayan and Bilaval Thaats.
- (b) Maseed Khani gut and Raja Khani gut with description, alap toras in following raags.  
(1) Kalayan raag (2) Allhayia Billaval,  
(3) Varinda Vani Sarang.
- (c) Capability to demastrate the following taals with bols and matras by hand. In ikgun and dugun layakaries.  
(1) Tadra Taal (2) Teen Taal (3) Jhap Taal (4) Chhar Taal
- (d) Dun in Kalayan rag and Varinda Vani rarang raag.
- (e) National Anthem (gaan), rules notation.

**Note:- The book Published and Prescribed by the Punjab School Education Board:-**

**Sangeet Vadan-11 (Instrumental)**

**CLASS - XI**  
**22. MUSIC – TABLA**

**Time: 3Hrs**

**Time: 20 mints (per student)**

**Theory: 40 Marks**

**Practical: 50 Marks**

**CCE: 10 Marks**

**Total: 100 Marks**

**SYLLABUS (THEORY)**

**STRUCTURE OF QUESTION PAPER (THEORY)**

1. The question paper will comprise of 23 questions in total.
2. The question paper will consist of three parts with each part representing both sections.

**Part-I** will consist of 9 objective type questions (Q. no. 1 to 9) carrying one mark each. Answer of these questions are in one word or in one sentence.

**9×1=9 Marks**

**Part-II** will consist of 10 short answer type questions (Q. no. 10 to 19) carrying three (3) marks each. Attempt any seven questions out of ten questions. Answer of each question should be given in 10-15 lines.

**7×3=21 Marks**

**Part-III** will consist of 4 long answer type questions (Q. no. 20 to 23) every questions carrying 5 marks each. Attempt any two questions out of four questions. Answer of each question should be given with in 150-200 lines.

**5×2=10 Marks**

**SECTIONWISE DISTRIBUTION OF QUESTIONS AND MARKS**

Type of Questions	Marks of per Question	No. of Questions	Section-wise Distribution of Questions		Total Marks
			Section-A	Section-B	
Objective Type	1 mark	09	5	4	<b>09</b>
Short Answer Type	3marks	10	6	4	<b>21</b>
Essay Type	5marks	04	2	2	<b>10</b>
<b>Total Questions</b>		<b>23</b>	<b>13</b>	<b>10</b>	<b>40</b>

**SYLLABUS (THEORY)**

**PART-A**

- (i) Definition of the following:-  
Sangeet, Naad, Matra, Vibhag, Taal, Laya, Theka, Avartan, Sam, Taali, Khaali, Kayada, Laggi, Mukhra, Mohra.
- (ii)
  - (a) Short History of Tabla.
  - (b) Merits and demerits of Tabla Player.
  - (c) Description of Tabla.
  - (d) Ten Varnas of Tabla.
  - (e) Principles of Tabla accompaniment with vocalist and instrumentalist.
- (iii) Biographical sketches.
  - (a) Ustad Ahmad Jaan Thirkva.
  - (b) Pt. Anokhe Lal
  - (c) Pt. Krishan Maharaj
  - (d) Ustad Alla Rakha.

**PART-B**

- (i) Description and comparison of Teen Taal, Tilwara, Jhap Taal, Sul Taal.

- (ii) Recognition of prescribed Taals from the given Bols.
- (iii) Two laggies in Kehrva and Dadra.
- (iv) Notation of prescribed Taals along with Dugun and Chougun Laykaries.
- (v) Notation of the following terms in Teentaal, Jhap Taal, Rupak Taal: One Kayada, two Paltas, one Rela, one Tukra and one Tihai.

**PAPER-B**  
**PRACTICAL MUSIC (TABLA)**  
**STRUCTURE OF QUESTION PAPER**

There should not be more than 9 (nine) students in a batch of practical examination. The question paper will set by the examiner on the spot. While setting the question paper in practical, the examiner must consider the syllabus in theory and will follow the following instructions.

1. Demonstration/performance of Solo Vadan of any one Taal out of the prescribed syllabus. The choice of the Taal will be done by the student. It will be for 6 minutes and shall carry 10 marks.
2. Demonstration/performance of Solo Vadan of any one Taal out of the prescribed syllabus. The choice of the Taal will be done by the examiner. It will be for 4 minutes and will carry 10 marks.
3. Demonstration of 'Taals' in Ekgun and Dugun layakaries by hand. It will be for 4 minutes and will carry 10 marks.
4. Ability to play one laggi in any Taal out of the syllabus. It will be for 2 minutes and will carry 10 marks.
5. Ability to play Tabla with Lehra. It will be for 4 Minutes and will carry 10 Marks.

**PRACTICAL**

- (i) Systematic solo performance of the following Taals with Peshkar, Kayada, Palta, Tihai, Tukra, Rela and Pakar: Teen Taal, Jhap Taal, Rupak Taal.
- (ii) Two laggies in Dadra and Kehrva Taal.
- (iii) To play simple Theka of the Ek Taal, Tilwara, Sul Taal.
- (iv) Ability to play Tabla with Lehra.
- (v) Ability to produce different bols of Taal by the examiner.
- (vi) Padhant of Ikgun, Dugun and Chougun Laykaries of prescribed Taals and on Tabla.

**CLASS - XI**  
**23. DANCE**

**Time: 3Hrs**  
**Time: 20 mints (per student)**

**Theory: 40 Marks**  
**Practical: 50 Marks**  
**CCE: 10 Marks**  
**Total: 100 Marks**

**SYLLABUS (THEORY)**  
**STRUCTURE OF QUESTION PAPER (THEORY)**

1. The question paper will comprise of 23 questions in total.
2. The question paper will consist of three parts with each part representing both sections.

**Part-I** will consist of 9 objective type questions (Q. no. 1 to 9) carrying one mark each. Answer of these questions are in one word or in one sentence.

**9×1=9 Marks**

**Part-II** will consist of 10 short answer type questions (Q. no. 10 to 19) carrying three (3) marks each. Attempt any seven questions out of ten questions. Answer of each question should be given in 10-15 lines.

**7×3=21 Marks**

**Part-III** will consist of 4 long answer type questions (Q. no. 20 to 23) every questions carrying 5 marks each. Attempt any two questions out of four questions. Answer of each question should be given with in 150-200 lines.

**5×2=10 Marks**

**SECTIONWISE DISTRIBUTION OF QUESTIONS AND MARKS**

Type of Questions	Marks of per Question	No. of Questions	Section-wise Distribution of Questions		Total Marks
			Section-A	Section-B	
Objective Type	1 mark	09	5	4	<b>09</b>
Short Answer Type	3marks	10	6	4	<b>21</b>
Essay Type	5marks	04	2	2	<b>10</b>
<b>Total Questions</b>		<b>23</b>	<b>13</b>	<b>10</b>	<b>40</b>

**SYLLABUS**  
**PART-A**

- I. Definition of dance, its importance in human life.
- II. Knowledge of basic technical terms used in Kathak dance such as Theka, Laya, Taal, Tatkar, That, Amad, Salami, Tihai.
- III. Critical study of Natya and Naritya.
- IV. Comparative study of the folk and classical dance.
- V. Knowledge of the following:  
Asnyukta hast Mudras, their function in dance-Pataka, Tripataka, Ardhapataka, Mayur, Ardachandra, Ara Shuktund, Mushti, Shikhar, Kapittha Rallamukh, Suchi, Chander kala, Padma Kosh, Sarpshrish.
- VI. Short account of Raags and their importance in dance.
- VII. Short history of Kathak-dance.



VIII. Survey and essential characteristics of Kathak dance.

### **PART-B**

- I. Definition and description of prescribed Taals.
- II. Recognition of Taals through some Bols.
- III. Notation of all material prescribed in practical course.
- IV. Notation of prescribed Taals in single, Dugun and Chougun Laykaries.

### **PAPER-B**

#### **PRACTICAL (DANCE)**

#### **STRUCTURE OF QUESTION PAPER**

There should not be more than 9 (nine) students in a batch of practical examination. The question paper will set by the examiner on the spot. While setting the question paper in practical, the examiner must consider the syllabus in theory and will follow the following instructions.

1. A systematic dance performance in any Taal from the prescribed syllabus as per choice of the student. It will be for 6 minutes and shall carry 10 marks.
  2. A systematic dance performance in any Taal from the prescribed syllabus as per choice of the examiner. It will be for 4 minutes and shall carry 10 marks.
  3. Demonstration/performance of any Taal in Ekgun and Dugun layakaries. It will be for 4 minutes and carry 10 marks.
1. Student will be given some bols of the prescribed Taals He/She will have to recognise two out of these. It will be for 2 minutes and will carry 10 marks.
  2. Demonstration /performance of any two Gat nikas and palta of Tatkar. It will be for 4 minutes and carry 10 marks.

#### **SYLLABUS (PRACTICAL)**

- I. Systematic dance performance of the following Taals on the material given below:-
  - A) Teen Taal : (16 Matras)
    - One Thaat
    - One Amad
    - One Salami
    - Two Toras
    - One Kavit
    - One Tihai
    - One Paran
    - Two Paltas
  - B) Taal Rupak (7 Matras)
    - One Thaat
    - One Amad

One Salami

One Tihai

One Tukra

One Paltai

- II. Advance Tatkar in single, Dugun and Chougun Laykaries in the Teen Taal, Rupak Taal.
- III. Two Gat nikas in Teen Taal.
- IV. Description of Dadra and Kehrva Taals.  
Recognition of prescribed Taals through some Bol.

**CLASS - XI**  
**24. PHILOSOPHY**

**Time: 3 Hrs**

**Theory: 90 Marks**  
**CCE: 10 Marks**  
**Total: 100 Marks**

**STRUCTURE OF QUESTION PAPER**

1. All questions are compulsory.
2. The question paper will comprise of 4 sections A, B, C and D of four questions with 32 sub parts to be attempted.
3. **All units of the syllabus should be given adequate representation in the question paper.**

**SECTION- A**

**Objective Type Questions:** Question No. 1 will have ten Parts (I to X) and each Part will carry 1 mark. This section will include questions with one word answer/ fill in the blank/ true or false/multiple choice type questions.

**1×10= 10**

**SECTION- B**

**Very Short Answer Type Questions:** Question No. 2 comprises of 10 sub parts (questions I to X) carrying 2 marks each. Answer to each question should be in about 20-30 words. All Questions are compulsory. **2×10= 20**

**SECTION- C**

**Short Answer Type Questions:** Question No. 3 comprises of 6 sub parts (I to VI) carrying 4 marks each. Answer to each question should be in about 50-60 words. **4×6= 24**

**SECTION- D**

**Long Answer Type Questions:** Question No. 4 comprises of 6 sub parts (questions I to VI) carrying 6 marks each. Answer to each question should be in about 100-150 words. Three will be 100% internal choice in these questions. **6×6= 36**

**Note:- Weightage to each unit must be given in each type of questions as appropriate.**

Typology of Questions	Number of questions	Marks Division	Division of Syllabus		Total marks
			Part A Unit 1,2,3,4	Part B Unit 5,6,7,8	
<b>A. Objective Type Questions</b>	10	01 mark	5	5	10 Marks
<b>B. Short Answer Type questions Type- I</b>	10	02 marks	5	5	20 Marks
<b>C. Short Answer Type Questions Type-II</b>	06	04 marks	3	3	24 Marks
<b>D. Long Answer Type Questions</b>	06	06 marks	3	3	36 Marks
<b>Total</b>	<b>32</b>	<b>---</b>	<b>16</b>	<b>16</b>	<b>90</b>

## **SYLLABUS**

### **PART-A**

**Unit-I** Elementary Philosophy: Meaning, Definition and Uses of Philosophy.

**Unit-II** Branches of Philosophy: Metaphysics, Epistemology, Logic, Aesthetics and Psychology.

**Unit-III** (a) Logic: Definition, Meaning and Scope of Logic. The place of Logic as a Science. Relationship of Logic as Compared to that of Psychology and Grammar. Uses of Studying Logic.

(a) Fundamental Laws of Thought

(b) Terms: Their meaning, Connotation and Denotation.

**Unit-IV** Logical Definition: Its Rules. Fallacies Arising out of Violation of Rules. Limits of Logical definition. Practical Exercises in Fallacies of logical definitions.

### **PART-B**

**Unit-V** (a) Induction, its meaning and definition

Difference between Induction and Deduction.

(b) Kinds of Induction: Proper and Improper Induction. Scientific Induction, Perfect Induction, Simple Enumeration and Analogy.

(c) Formal Grounds of Induction: Law of Causation, Law of uniformity of nature-various uniformities.

**Unit-VI** Material Grounds of Induction: Observation: Testimony Experiment: Advantages of Experiment over Observation and advantages of Observation over Experiment. Regulative Principles of Observation and Experiment.

**Unit-VII** Relation of Philosophy to science and Religion.

**Unit-VIII** Dharma, Artha, Karma, Moksha, Varnashrama, Doctrine of Karma according to Indian Philosophy.

## CLASS-XI

### 25. ਭੂਗੋਲ

ਸਮਾਂ: 3 ਘੰਟੇ

ਲਿਖਤੀ ਪੇਪਰ : 70 ਅੰਕ

ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ : 10 ਅੰਕ

ਪ੍ਰੈਕਟੀਕਲ : 20 ਅੰਕ

ਕੁੱਲ: 100 ਅੰਕ

#### ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ ਰੇਖਾ

1. ਪਹਿਲੇ ਭਾਗ ਦੇ ਅੱਠ ਉਪ ਭਾਗ ਹੋਣਗੇ ਜਿਨ੍ਹਾਂ ਦੇ ਉੱਤਰ **objective type** ਹੋਣਗੇ। ਹਰ ਉੱਪ ਭਾਗ ਇਕ ਅੰਕ ਦਾ ਹੋਵੇਗਾ ਤੇ ਹਰ ਉੱਤਰ ਦੀ ਲੰਬਾਈ ਇਕ ਸ਼ਬਦ ਤੋਂ ਇਕ ਵਾਕ ਤੱਕ ਜਾਂ **multiple choice** ਕਿਸਮ ਦੀ ਹੋ ਸਕੇਗੀ। ਉਪ ਭਾਗ ਦੇ ਘੱਟੋ-ਘੱਟ ਦੋ ਪ੍ਰਸ਼ਨ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਸੈੱਟ ਕੀਤੇ ਜਾਣਗੇ। 1×8=8
2. ਦੂਸਰੇ ਭਾਗ ਦੇ ਅੱਠ ਉਪ ਭਾਗ ਹੋਣਗੇ ਅਤੇ ਹਰ ਉਪ ਭਾਗ 2 ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ। ਉੱਤਰ ਦੀ ਲੰਬਾਈ 2 ਤੋਂ 3 ਵਾਕਾਂ ਵਿਚਾਲੇ ਹੋਵੇਗੀ ਤੇ ਉਪ ਭਾਗ ਦੇ 2 ਪ੍ਰਸ਼ਨ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਸੈੱਟ ਕੀਤੇ ਜਾਣਗੇ। 2×8=16
3. ਤੀਸਰੇ ਭਾਗ ਦੇ ਅੱਠ ਉਪ ਭਾਗ ਹੋਣਗੇ ਜਿਨ੍ਹਾਂ ਵਿੱਚੋਂ ਪੰਜ ਦੇ ਉੱਤਰ 60 ਤੋਂ 80 ਸ਼ਬਦਾਂ ਵਿੱਚ ਦੇਣੇ ਹੋਣਗੇ। ਹਰ ਉਪ ਭਾਗ 4 ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ ਤੇ ਘੱਟੋ-ਘੱਟ ਦੋ ਪ੍ਰਸ਼ਨ ਹਰ ਯੂਨਿਟ ਵਿੱਚੋਂ ਸੈੱਟ ਕੀਤੇ ਜਾਣਗੇ। 4×5=20
4. ਭਾਗ ਨੰਬਰ 4 ਤੋਂ 6 ਤੱਕ ਜੋੜੇ ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ ਜਿਨ੍ਹਾਂ ਦੇ ਹਰ ਜੋੜੇ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਦਾ ਜਵਾਬ ਦੇਣਾ ਜ਼ਰੂਰੀ ਹੋਵੇਗਾ। ਹਰ ਪ੍ਰਸ਼ਨ ਛੇ ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ ਤੇ ਉੱਤਰ ਦੀ ਲੰਬਾਈ 150 ਤੋਂ 250 ਸ਼ਬਦਾਂ ਵਿੱਚ ਰੱਖਣੀ ਹੋਵੇਗੀ। ਹਰ ਜੋੜੇ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਘੱਟੋ-ਘੱਟ ਦੋ ਜੋੜੇ ਇੱਕ ਯੂਨਿਟ ਵਿੱਚੋਂ ਜ਼ਰੂਰ ਸੈੱਟ ਕੀਤੇ ਜਾਣਗੇ। 6×3=18
5. ਭਾਗ ਨੰਬਰ 7, ਭਾਰਤ ਦੇ ਨਕਸ਼ੇ ਨਾਲ ਸਬੰਧਤ ਹੋਣਗਾ। 1×4=4
6. ਭਾਗ ਨੰਬਰ 8, ਸੰਸਾਰ ਦੇ ਨਕਸ਼ੇ ਨਾਲ ਸਬੰਧਤ ਹੋਵੇਗਾ। 1×4=4

ਨੋਟ: ਨੇਤਰਹੀਣ ਵਿਦਿਆਰਥੀ ਨਕਸ਼ਾ ਭਰਨ ਦੀ ਥਾਂ ਇਹਨਾਂ ਸਥਾਨਾਂ, ਕੇਂਦਰਾਂ ਦੀ ਸਥਿਤੀ ਸਪੱਸ਼ਟ ਰੂਪ ਵਿੱਚ ਲਿਖਣਗੇ।

Forms of Questions	Objective type Multiple choice Questions	Short Answer-I	Short Answer-II	Map work	Long Answer Questions
Number of Questions	08	08	05	08	03
Marks allotted	08	16	20	08	18
Percentage of Marks	12.5	23	27	12.5	25

### SYLLABUS (THEORY)

#### Unit-1 Solar System-

- i. **Earth-** Position of Earth in Solar System, Size & Shape, Movements of Earth and Effects, Longitudes and Latitudes, Time: Local, Standard and International Dateline.
- ii. **Rocks-** Origin, Classification and Characteristics
- iii. **Factors of Change-** Weathering and Denudation: River, Glacier, Wind, Oceans and Underground Water

#### Unit-2 Lithosphere

- iv. **Landforms-** Mountains, Plateaus and Plains; Origin, Classification and their significance to mankind
- v. **Earthquake-** Causes and Effects, Types and Distribution; Volcanoes- Causes and Effects of Volcanic Activities

### **Unit-3 Atmosphere**

- vi. **Extents, Layers and Composition,** Temperature and Factors Controlling Temperature, Distribution and range of Temperature; Pressures- Factors Controlling Pressures, Horizontal and Vertical Distribution
- vii. **Winds-** Planetary, Seasonal and Local, Shifting of Wind Belts and Impact their of, Cyclones and Anti-cyclones
- viii. **Humidity and Precipitation-** Relative Humidity and Specific Humidity, Precipitation types; Rainfall types and distribution.

### **Unit-4 Hydrosphere**

- ix. **Oceans-** Ocean basins and Sub-marine relief, Ocean Water and their Circulation, Temperature, Salinity, Waves, Currents and Tides.
- x. Special reference Geo-Political importance of Indian Ocean

**Note:-(a) Examples as far as possible be given from India.**

**(b) Answers be illustrated with maps and diagrams.**

### **Practical Map Work**

**Maps:** Necessity of maps, Classification their of.

**Scales of Maps:** R.F., Linear Scale; Its use in maps, Reduction and Enlargement through square method.

**Direction:** Finding direction in the field and on the map, Orientation of Local map in the field, Methods of showing direction on the map.

**Atlas map Symbols:** Identification and Recognition of Symbols or conventional signs used in atlas, topographic sheet and weather maps.

**Methods of showing relief on maps:** Contours, Interpolation of Contours identification of simple relief features from contours on a map, Drawing of cross section

**Observing and Recording of various weather elements with the help of following instruments:**

- a) Six's Minimum and Maximum Thermometer
- b) Aneroid Barometer
- c) Wind Vane
- d) Wet and Dry bulb Thermometer
- e) Rain Gauge
- f) Drawing of Isotherms, Isobars and Isohyets.

**CLASS - XI**  
**26. DEFENCE STUDIES**

**Time : 3 Hrs**

**Theory : 70 Marks**  
**Practical: 20 Marks**  
**CCE: 10 Marks**  
**Total: 100 Marks**

**STRUCTURE OF QUESTIONS PAPER (THEORY)**

1. There will be 20 Questions in all.
2. All questions are compulsory.
3. There will be 10 questions of one Mark each & these questions will be objective type. **10×1= 10 Marks**
4. There will be 8 questions of 5 Marks each. **8×5=40 Marks**
5. There will be 2 questions of 10 Marks each with internal choice. **2×10=20 Marks**

**SYLLABUS**

1. Definition and scope of Defence Studies, its relationship with other social and Physical Sciences.
2. Warfare: Evolution of warfare since primitive time to modern times. Definition and concepts of war, origin of war, Feudal war, Dynastic war, People's war, Modern war.
3. (a) Give Strategic importance of following places:
  - (i) Suez-canal
  - (ii) Panama Canal
  - (iii) Straits of Malacca
  - (iv) Korakoram-Sinking Highway.
  - (v) Laddakh.
  - (vi) Kathmandu.
  - (vii) Kodari Highway.
  - (viii) Chumbi Valley.

(b) Defence Potential of India:

  - (i) Strategic location frontiers of India;
  - (ii) Boundaries;
  - (iii) India's strategic Mineral Commodities;
  - (iv) Industrial potentials, transport and communication in India;

Physical and Cultural factors determining the defence potential.

4. Psychological Aspects of War:-
  - (i) Morale: Concept and definition, factors, controlling to morale and importance of morale.
  - (ii) Discipline: Definition, importance factors contributing to discipline, relation of discipline to morale. Leadership: Definition, Importance, Types and Qualities of leadership.

- (iii) Fear and Panic: Causes and effects of fear and panic, methods of recovery from fear and panic.
- (iv) Man Management: What is man management and its purpose.

## **PAPER-II**

### **VIVA-VOCE**

**Note:** In viva voca paper the lecture will be 10 marks and interview of 10 marks. The students will give a lecture in presence of audience for 5-10 minutes on the topic of his own choice out of the topics given in the syllabus.

1. Lecture: Each student will be required to give a talk (and not paper reading) for 5-10 minutes on any one of the under-mentioned topic:
  - (i) Suez Canal    (ii) Geo-strategic location of India    (iii) Modern War
  - (iv) Morale    (v) Defence Studies    (vi) Korakoram-Sinking Highway
  - (vii) Leadership
2. Interview: The examiner may ask the candidate any question from topic mentioned in the list of topics for lecture.



**CLASS - XI**  
**27. PSYCHOLOGY**

**Time: 3 Hrs**  
**Time: 3 Hrs**

**Theory: 70 Marks**  
**Practical: 20 Marks**  
**CCE: 10 Marks**  
**Total: 100 Marks**

**STRUCTURE OF QUESTION PAPER**

1. The Question paper will comprise of 26 questions in total.
2. All questions will be compulsory to attempt.
3. The question paper will consist of four parts:

**Part-I** will consist of eight (8) objective type questions (Q.No.1 to 8) carrying 1 mark each. Objective type questions may include questions with one word to one sentence answer **or** fill in the blank **or** true/false **or** multiple choice type questions. **8×1=8**

**Part-II** will consist of eight (8) short answer type I, questions (Q. No. 9 to 16) carrying 2 marks each. Answer of each question should be given in 50-60 words. **8×2=16**

**Part-III** will consist of seven (7) short answer type II, questions (Q. No. 17 to 23) carrying 4 marks each. Answers of each question should be given in 80-90 words. Out of seven, two internal choice questions will be asked. **7×4=28**

**Part-IV** will consist of three (3) long answer type questions with internal choice (Q. No. 24 to 26) carrying 6 marks each. Answer of each question should be given in approximately two pages of the answer sheet. **3×6=18**

**UNITWISE DISTRIBUTION OF QUESTIONS AND MARKS**

Type of question	Marks per question	No. of questions	Unitwise Distribution Of Questions								Total Marks
			Unit-I	Unit-II	Unit-III	Unit-IV	Unit-V	Unit-VI	Unit-VII	Unit-VIII	
Objective type	1 Mark	8	1	1	1	1	1	1	1	1	<b>8</b>
Short answer type-I	2 Marks	8	1	1	1	1	1	1	1	1	<b>16</b>
Short answer type-II	4 Marks	7	1	1	1	1	-	1	1	1	<b>28</b>
Long answer type	6 Marks	3	-	-	1	-	1	-	1	-	<b>18</b>
<b>Total</b>		<b>26</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>3</b>	<b>70</b>

## SYLLABUS

### PART-A

**Unit-I Psychology as a Science of Behaviour:**

Nature of psychology, Importance of psychology in life. Its concept and Definition-Fields of Psychology-Relationship of Psychology with Physiology, Sociology and Education.

**Unit-II Methods of Psychology:**

Introspection, observation, Experimental and Case History Methods.

**Unit-III Psychological Basis of Behaviour:**

Response Mechanism: Meaning, Definition and Parts, i.e. Receptors, Effectors and Connections- Basic Unit of Nervous System: The Neurons and its kinds-Nerve Impulse and Reflex Action-Classification of Receptors according to Position and Function. Major Parts of Brain and their functions-The structure and function of Spinal Cord-The structure and function of Autonomic Nervous System, Endocrine glands and the effect of their Hormones on Behaviour.

**Unit-IV Sensory Processes**

Definition, Meaning, Threshold and characteristics of Sensations-kinds of sensations with special reference to visual sensation.

-Eye as a Sense Organ-Colour Blindness and After Images.

**Unit-V: Perception:** Nature and Meaning. Difference between Illusions and Hallucinations.

**Unit-VI: Attention:** Meaning, Definition and characteristics of Attention-Factors affecting attention-span, Division and Distraction of Attention.

**Unit-VII: Learning:** Meaning, Definition and views regarding Nature of Learning- Characteristics of Learning-Methods and theories of Learning: Learning through trial and error, Insight theory of Learning. Laws of learning.

**Unit-VIII: Memory:** Meaning, Definition and characteristics of Memory-Kinds of Memory-Processes of Memory: Recognition, Retention, Recall, Memorization-Forgetting and its Causes.

### EXPERIMENTS

1. Negative After image
2. Mapping of Sensory Spots in the skin
3. Mapping of blind spot
4. Span of Attention
5. Mirror Drawing Experiment
6. Retention by Recall
7. Immediate Memory Span
8. Division of Attention

**CLASS - XI**  
**28. HOME SCIENCE**

**Time: 3 Hrs**  
**Time: 3 Hrs**

**Theory: 60 Marks**  
**Practical: 30 Marks**  
**CCE: 10 Marks**  
**Total: 100 Marks**

**STRUCTURE OF QUESTION PAPER (Theory)**

The question paper will comprise of 22 questions in total.

All questions will be compulsory to attempt.

The question paper will consist of three parts with each part representing both sections.

**Part-I** will consist of 7 objective type questions (Q. no. 1 to 7) carrying one mark each. Objective type questions may include questions with one word to one sentence answer **or** fill in the blank **or** true/false **or** multiple choice type questions. **7×1=7 Marks**

**Part-II** will consists of 11 short answer type questions (Q. no. 8 to 18) carrying 3 marks each. Any four questions out of 11 will carry internal choice (two from each section). Answer of each question should be given within 60-80 words. **11×3=33 Marks**

**Part-III** will consist of 4 long answer type questions (Q. no. 19 to 22) with internal choice (from the same section) carrying 5 marks each. Answer of each question should be given within 150-200 words.

**4×5=20 Marks**

**SECTIONWISE DISTRIBUTION OF QUESTIONS AND MARKS**

Type of question	Marks per question	No. of Questions	Section wise Distribution of questions		Total Marks
			Section A	Section B	
Objective type	1 Mark	7	3	4	<b>7</b>
Short answer type	3 Marks	11	6	5	<b>33</b>
Long answer type	5 Marks	04	2	2	<b>20</b>
<b>Total</b>		<b>22</b>	<b>11</b>	<b>11</b>	<b>60</b>

**SYLLABUS (THEORY)**

**SECTION – A**

**(Family Resource Management)**

**1. Meaning and Scope of Home Science**

- i. Meaning
- ii. Five major areas of home science
- iii. Significance of home science in improving quality of life

**2. Management Concepts**

- i. Meaning of management

- ii. Purpose of home management
- iii. Management process- planning, controlling, evaluation
- iv. Motivational factors of management (values, goals, standards and decision making)
- v. Qualities of an efficient home manager

### **3. Management of Resources in day to day Living**

- i. Meaning, type and characteristics of resources
- ii. Time and energy management
  - Steps in time and energy management
  - Work simplification techniques
- iii. Money management
  - Steps in money management
  - Methods of supplementing family income
  - Wise buying and saving practices
  - Saving and investment

### **4. Cleaning and Maintenance of House and Household Items**

- i. General principles for cleaning and cleaning schedule
- ii. Cleaning tools and cleansing materials
- iii. Cleaning of different metals/materials used in household
- iv. Eco friendly substitutes for cleaning household items and surfaces

### **5. Interior decoration and Space Management**

- i. Importance and objectives of interior decoration
- ii. Use of art principles in home decoration
- iii. Spaces managements through use of colour, light, accessories and furniture

### **6. Consumer Protection & Education**

- i. Need and importance for consumer education
- ii. Consumer problems related to purchase of household items
- iii. Consumer aids- labels, standardization marks, labels, advertisements
- iv. Consumer's rights and responsibilities
- v. Consumer Protection Act, 1986 and seeking redressal for grievances.

## **SECTION – B (Apparel and Textile Science)**

### **1. Fibre Science**

- i. Classification of fibres
- ii. Sources, characteristics and suitability for use of cotton, wool, silk and nylon

### **2. Fabric Construction and Finishes**

- i. Yarns-

- a. Simple
  - b. Novelty
- ii. Weaving-
  - a. Basic weave mechanism
  - b. Plain, twill, satin and sateen weaves
- iii. Knitting, knotting, crocheting, braiding, felting and bonding
- iv. Purpose and classification of finishes
- v. Brief introduction to mercerization, bleaching, stiffening, tentering, calendaring, scouring

### **3. Dyeing and Printing**

- i. Purpose and types
- ii. Plain dyeing
- iii. Tie and dye
- iv. Batik, block, stencil and spray printing

### **4. Elements and Principles of Design and their Impact**

### **5. Selection, Care, Maintenance and Storage of Clothes**

- i. Factors influencing selection of apparel
- ii. Check points before buying readymade garments
- iii. Care labels on fabric and readymade garments.
- iv. Soaps and detergents
- v. Stain Removal
- vi. Care and storage

### **STRUCTURE OF QUESTION PAPER (PRACTICAL)**

**Time: 3 Hours**

**Marks: 30**

There should not be more than 25 candidates in a group. The Practical question paper will consist of two sections. Distribution of Marks will be as follows:

- |    |                              |         |
|----|------------------------------|---------|
| 1. | Viva Voce, Notebook & Record | 5 Marks |
|----|------------------------------|---------|

#### **Section-A (Family Resource Management)**

- |    |   |         |
|----|---|---------|
| 2. | Any one practical from practical no. 1, 2, 3, 4, 5,9 and 10 | 5 Marks |
| 3. | Any one practical from practical no. 6, 7 and 8             | 5 Marks |

#### **Section-B (Apparel and Textile Science)**

- |    |  |         |
|----|--|---------|
| 4. | Any one sample from practical no. 1 and 2    |         |
|    | or   |         |
|    | Any one sample from practical no. 3 and 4    | 5Marks  |
| 5. | Any one sample from practical no. 5 and 6    |         |
|    | or   |         |
|    | Any one sample from practical no. 7, 8 and 9 | 5 Marks |

6. Any one stain removal from practical no. 10.

5 Marks

### **SYLLABUS (PRACTICAL)**

#### **SECTION – A (Family Resource Management)**

1. Organisation and Evaluation of work centers
2. Preparation of family budget
3. Opening and Operating a bank account
4. Identification of food adulterants through simple tests
5. Cleaning of Household articles/Surfaces
6. Flower arrangement
7. Tables setting and table etiquettes
8. Floor decoration
9. Critical analysis of labels
10. Practical experience of seeking redressal under consumer Act, 1986

#### **SECTION – B (Apparel and Textile Science)**

1. To identify different fibres by burning test
2. Preparation of paper samples for plain, twill, satin and sateen weaves.
3. Preparation of three knitting sample- knit stitch, purl stitch, combination of knit and purl stitch.
4. Preparation of two samples of crocheting
5. Preparation of five samples of tie and dye
6. Preparation of two samples of batik in at least three different colours
7. Preparation of two samples of block printing in at least two different colours
8. Preparation of one sample of spray printing
9. Preparation of one sample of stencil printing
10. Stain removal – ball pen, blood, grease, tea, curry

**ਸ਼੍ਰੇਣੀ-ਗਿਆਰ੍ਹਵੀਂ**  
**29. ਮਾਡਲਿੰਗ ਅਤੇ ਮੂਰਤੀਕਲਾ (ਬੁੱਤਕਾਰੀ)**  
**Modelling and Sculpture**

**ਸਮਾਂ : 8 ਘੰਟੇ**

**ਕੁੱਲ ਅੰਕ : 100**

**ਨੋਟ :-** ਇਹ ਪੇਪਰ ਪੂਰਨ ਪ੍ਰਯੋਗੀ ਹੈ ਅਤੇ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਅਕ ਰਾਹੀਂ ਬੋਰਡ ਵੱਲੋਂ ਨਿਯਤ ਡੇਟ-ਸ਼ੀਟ ਅਨੁਸਾਰ ਲਿਆ ਜਾਵੇਗਾ।

**ਅੰਕਾਂ ਦੀ ਵੰਡ**

ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ	= 90 ਅੰਕ
ਸੀ.ਸੀ.ਈ.	= 10 ਅੰਕ
ਕੁੱਲ ਅੰਕ	= 100 ਅੰਕ
ਪਾਸ ਅੰਕ	= 33 ਅੰਕ

**ਪਹਿਲਾ ਪੇਪਰ (ਭਾਗ-I)**

**ਸਮਾਂ: 4 ਘੰਟੇ**

**ਸੈਸ਼ਨ: ਸਵੇਰ**

**ਦੂਜਾ ਪੇਪਰ (ਭਾਗ-II)**

**ਸਮਾਂ: 4 ਘੰਟੇ**

**ਸੈਸ਼ਨ: ਸ਼ਾਮ**

**ਭਾਗ-I**

**ਅੰਕ: 38**

ਤਿਆਰ ਕੀਤੀ ਮਿੱਟੀ ਦੁਆਰਾ ਆਪਣੀ ਯਾਦ ਸ਼ਕਤੀ ਅਨੁਸਾਰ ਪੰਛੀ, ਜੰਗਲੀ ਜਾਨਵਰ, ਪਸ਼ੂ ਅਤੇ ਮਨੁੱਖੀ ਸ਼ਰੀਰ ਦੇ ਮਾਡਲ ਤਿਆਰ ਕਰਨੇ।

**ਭਾਗ-II**

**ਅੰਕ: 38**

ਅਸਲ ਸ਼ਕਲ ਦਰਸਾਉਂਦੇ ਕੰਨ, ਨੱਕ, ਬੁੱਲ੍ਹ, ਅੱਖ, ਹੱਥ, ਪੈਰ, ਚਿਹਰਾ ਅਤੇ ਸਿਰ ਦੇ ਮਾਡਲ ਬਣਾਉਣੇ।

**ਭਾਗ-III**

**ਅੰਕ: 14**

**ਸੈਸ਼ਨਲ ਕੰਮ**

ਸਾਰੇ ਸਾਲ ਵਿੱਚ ਤਿਆਰ ਕੀਤੀਆਂ ਘੱਟੋ-ਘੱਟ ਵੀਹ ਕਲਾਕਰਿਤੀਆਂ (ਬੁੱਤ) ਜੋ ਕਿ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਅਕ ਚੈੱਕ ਕਰੇਗਾ ਅਤੇ ਅੰਕ ਲਾਵੇਗਾ। ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਅਕ ਦੁਆਰਾ ਵਿਸ਼ੇ ਸਬੰਧੀ ਜਬਾਨੀ ਪ੍ਰਸ਼ਨ ਵੀ ਪੁੱਛੇ ਜਾ ਸਕਦੇ ਹਨ।

**ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ-ਰੇਖਾ/Structure of Question Paper**  
**ਮਾਡਲਿੰਗ ਅਤੇ ਮੂਰਤੀਕਲਾ (ਬੁੱਤਕਾਰੀ)/Modelling and Sculpture**

**ਕੁੱਲ ਅੰਕ : 100**

**ਭਾਗ-I**

**ਅੰਕ : 38**

ਇਹ ਪੇਪਰ ਪ੍ਰਯੋਗੀ ਡੇਟ ਸ਼ੀਟ ਅਨੁਸਾਰ ਪ੍ਰੀਖਿਅਕ ਰਾਹੀਂ ਲਿਆ ਜਾਵੇਗਾ। ਇਹ ਸਵੇਰ ਦੇ ਸੈਸ਼ਨ ਵਿੱਚ ਹੋਵੇਗਾ ਅਤੇ ਇਸਦੇ 38 ਅੰਕ ਹੋਣਗੇ। ਇਸ ਦਾ ਸਮਾਂ ਚਾਰ ਘੰਟੇ ਹੋਵੇਗਾ। ਇਸ ਵਿੱਚ ਪੱਤੇ, ਭੁੱਲ, ਪੰਛੀ, ਜਾਨਵਰ ਅਤੇ ਮਨੁੱਖੀ ਸ਼ਰੀਰ ਮਿੱਟੀ ਦੁਆਰਾ ਤਿਆਰ ਕੀਤੇ ਜਾਣਗੇ।

**ਭਾਗ-II**

**ਅੰਕ: 38**

ਇਹ ਪੇਪਰ ਸ਼ਾਮ ਦੇ ਸੈਸ਼ਨ ਵਿੱਚ ਹੋਵੇਗਾ। ਇਸ ਦਾ ਸਮਾਂ ਚਾਰ ਘੰਟੇ ਅਤੇ ਇਹ ਪੇਪਰ 38 ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ। ਇਸ ਵਿੱਚ ਮਿੱਟੀ ਦੁਆਰਾ ਕੰਨ, ਨੱਕ, ਅੱਖ, ਹੱਥ, ਬੁੱਲ੍ਹ, ਪੈਰ, ਚਿਹਰਾ ਅਤੇ ਸਿਰ ਦਾ ਅਸਲ ਸ਼ਕਲ ਦਰਸਾਉਂਦਾ ਮਾਡਲ ਤਿਆਰ ਕੀਤਾ ਜਾਵੇਗਾ।

**ਭਾਗ-III**

**ਅੰਕ: 14**

**ਸੈਸ਼ਨਲ ਕੰਮ**

ਦੋਨਾਂ ਸੈਸ਼ਨਾਂ ਦੇ ਵਿਚਕਾਰ ਇੱਕ ਘੰਟੇ ਦੀ ਛੁੱਟੀ ਹੋਵੇਗੀ। ਉਸ ਦੌਰਾਨ ਸੈਸ਼ਨਲ ਕੰਮ ਚੈੱਕ ਕਰਕੇ ਮੁਲਾਂਕਣ ਕੀਤਾ ਜਾਵੇਗਾ। ਇਹ 14 ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ। ਇਸ ਵਿੱਚ ਪਾਠ-ਕ੍ਰਮ ਅਨੁਸਾਰ ਕੋਈ ਵੀਹ ਮਿੱਟੀ ਦੇ ਮਾਡਲ ਜੋ ਕਿ ਪ੍ਰੀਖਿਆਰਥੀ ਵੱਲੋਂ ਤਿਆਰ ਕੀਤੇ ਹੋਣ ਦਾ ਮੁਲਾਂਕਣ ਕੀਤਾ ਜਾਵੇਗਾ।

**ਨੋਟ:-** ਡਰਾਇੰਗ ਅਤੇ ਪੇਂਟਿੰਗ ਦਾ ਹੋਰ ਸਾਰਾ ਸਾਮਾਨ ਪ੍ਰੀਖਿਆਰਥੀ ਖੁਦ ਨਾਲ ਲੈ ਕੇ ਆਵੇਗਾ।

**ਸ਼੍ਰੇਣੀ-ਗਿਆਰ੍ਹਵੀਂ**  
**30. ਕਮਰਸ਼ੀਅਲ ਆਰਟ**  
**Commercial Art**

ਸਮਾਂ : 8 ਘੰਟੇ

ਕੁੱਲ ਅੰਕ : 100

ਨੋਟ :- ਇਹ ਪੇਪਰ ਪੂਰਨ ਪ੍ਰਯੋਗੀ ਹੈ ਅਤੇ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਅਕ ਰਾਹੀਂ ਬੋਰਡ ਵੱਲੋਂ ਨਿਯਤ ਡੇਟ-ਸ਼ੀਟ ਅਨੁਸਾਰ ਲਿਆ ਜਾਵੇਗਾ।

**ਅੰਕਾਂ ਦੀ ਵੰਡ:-**

ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ	= 90 ਅੰਕ
ਸੀ.ਸੀ.ਈ.	= 10 ਅੰਕ
ਕੁੱਲ ਅੰਕ	= 100 ਅੰਕ
ਪਾਸ ਅੰਕ	= 33 ਅੰਕ

ਪਹਿਲਾ ਪੇਪਰ (ਭਾਗ-I)

ਸਮਾਂ: 4 ਘੰਟੇ

ਸੈਸ਼ਨ: ਸਵੇਰ

ਦੂਜਾ ਪੇਪਰ (ਭਾਗ-II)

ਸਮਾਂ: 4 ਘੰਟੇ

ਸੈਸ਼ਨ: ਸ਼ਾਮ

**ਭਾਗ-I**

ਅੰਕ: 38

**ਲੇ-ਆਉਟ ਡੀਜਾਇਨਿੰਗ (Layout Designing)**

- i) ਹਿੰਦੀ, ਪੰਜਾਬੀ ਜਾਂ ਅੰਗਰੇਜ਼ੀ ਵਿੱਚ ਵੱਡੇ ਵੱਡੇ ਅੱਖਰਾਂ ਵਿੱਚ ਲਿਖਾਈ ਕਰਨਾ।  
ਜਿਵੇਂ :- ਜੀ ਆਇਆ ਨੂੰ, ਸਵਾਗਤ, WELCOME
- (ii) ਸਾਧਾਰਨ ਕਿਤਾਬਾਂ ਦੇ ਕਵਰ ਚਿੱਤਰਾਂ ਦੇ ਸਾਧਾਰਨ ਲੇ-ਆਉਟ ਤਿਆਰ ਕਰਨੇ।

ਮੀਡੀਅਮ :- ਪੋਸਟਰ ਕਲਰ।

**ਭਾਗ - II**

ਅੰਕ : 38

**ਪੋਸਟਰ ਬਣਾਉਣੇ (Poster Making)**

ਵਪਾਰਕ ਵਸਤੂਆਂ ਦੀ ਮਸ਼ਹੂਰੀ ਸੰਬੰਧੀ ਪੋਸਟਰ ਤਿਆਰ ਕਰਨੇ।

ਜਿਵੇਂ - ਰੈੱਡ ਲੇਬਲ ਚਾਹ (Red Label Tea)

ਲਕਸ ਸਾਬਣ (LUX SOAP)

ਕਾਗਜ਼ ਦਾ ਮਾਪ :- ਪੂਰੇ ਕਾਗਜ਼ ਦਾ  $\frac{1}{4}$  ਹਿੱਸਾ (35 ਸੈਂ.ਮੀ. x 25 ਸੈਂ.ਮੀ.)

**ਭਾਗ - III**

ਅੰਕ : 14

**ਸੈਸ਼ਨਲ ਕੰਮ**

ਸਾਰੇ ਸਾਲ ਵਿੱਚ ਤਿਆਰ ਕੀਤੀਆਂ ਘੱਟੋ-ਘੱਟ 20 ਕਲਾ ਕ੍ਰਿਤੀਆਂ ਜੋ ਕਿ ਪ੍ਰੀਖਿਆਰਥੀ ਵੱਲੋਂ ਤਿਆਰ ਕੀਤੀਆਂ ਹੋਣ ਦਾ ਮੁਲਾਂਕਣ ਕੀਤਾ ਜਾਵੇਗਾ।

ਨੋਟ : ਡਰਾਇੰਗ ਸ਼ੀਟਾਂ ਅਤੇ ਪੇਂਟਿੰਗ ਦਾ ਸਾਰਾ ਸਮਾਨ ਪ੍ਰੀਆਰਥੀ ਖੁਦ ਨਾਲ ਲੈ ਕੇ ਆਵੇਗਾ।

**ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ-ਰੇਖਾ (Structure of Question Paper)**

**ਕਮਰਸ਼ੀਅਲ ਆਰਟ (Commercial Art)**

ਸਮਾਂ : 8 ਘੰਟੇ

ਕੁੱਲ : 100 ਅੰਕ

**ਅੰਕਾਂ ਦੀ ਵੰਡ**

ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ	: 90 ਅੰਕ
ਸੀ.ਸੀ.ਈ.	: 10 ਅੰਕ
ਕੁੱਲ	: 100 ਅੰਕ
ਪਾਸ ਅੰਕ	: 33 ਅੰਕ



**ਭਾਗ-I****ਅੰਕ : 38**

1. ਇਹ ਪੇਪਰ ਪ੍ਰਯੋਗੀ ਡੇਟ-ਸ਼ੀਟ ਅਨੁਸਾਰ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਅਕ ਵੱਲੋਂ ਲਿਆ ਜਾਵੇਗਾ। ਪਹਿਲੇ ਸਵੇਰ ਦੇ ਸੈਸ਼ਨ ਵਿੱਚ ਲੇ-ਆਊਟ ਡਿਜ਼ਾਈਨਿੰਗ ਸਬੰਧੀ ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ। ਇਹ ਪੇਪਰ ਚਾਰ ਘੰਟੇ ਦਾ ਹੋਵੇਗਾ। ਇਸ ਦੇ ਕੁੱਲ 38 ਅੰਕ ਹੋਣਗੇ। ਇਸ ਵਿੱਚ ਤਿੰਨ ਪ੍ਰਸ਼ਨ ਸੈੱਟ ਕਰਨੇ ਹੋਣਗੇ। ਵਿਦਿਆਰਥੀ ਵੱਲੋਂ ਕੋਈ ਇੱਕ ਪ੍ਰਸ਼ਨ ਹੱਲ ਕਰਨਾ ਹੋਵੇਗਾ।

**ਭਾਗ-II****ਅੰਕ : 38**

2. ਦੂਜੇ ਸ਼ਾਮ ਦੇ ਸੈਸ਼ਨ ਵਿੱਚ ਪੋਸਟਰ ਡਿਜ਼ਾਈਨਿੰਗ ਦਾ ਪੇਪਰ ਹੋਵੇਗਾ। ਇਹ ਪੇਪਰ ਵੀ ਉਪਰੋਕਤ ਅਨੁਸਾਰ 38 ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ। ਇਸ ਦਾ ਸਮਾਂ ਚਾਰ ਘੰਟੇ ਹੋਵੇਗਾ। ਪ੍ਰੀਖਿਆਰਥੀ ਵੱਲੋਂ ਕੋਈ ਇੱਕ ਪ੍ਰਸ਼ਨ ਹੱਲ ਕਰਨਾ ਹੋਵੇਗਾ।
3. **ਪੇਪਰ ਦਾ ਸਾਈਜ਼:- ਪੂਰੇ ਕਾਗਜ਼ ਦਾ  $\frac{1}{4}$  ਹਿੱਸਾ (35 ਸੈਂ. ਮੀ.  $\times$  25 ਸੈਂ. ਮੀ.)**

**ਭਾਗ-III****ਅੰਕ : 14****ਸੈਸ਼ਨਲ ਕੰਮ**

ਦੋਨਾਂ ਸੈਸ਼ਨਾਂ ਦੇ ਵਿਚਕਾਰ ਇੱਕ ਘੰਟੇ ਦੀ ਛੁੱਟੀ ਹੋਵੇਗੀ। ਉਸ ਦੌਰਾਨ ਸੈਸ਼ਨਲ ਕੰਮ ਚੈਕ ਕਰਕੇ ਮੁਲਾਂਕਣ ਕੀਤਾ ਜਾਵੇਗਾ। ਇਹ 14 ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ। ਸਾਰੇ ਸਾਲ ਵਿੱਚ ਤਿਆਰ ਕੀਤੀਆਂ ਘੱਟੋ-ਘੱਟ 20 ਕਲਾ ਕ੍ਰਿਤੀਆਂ ਜੋ ਕਿ ਪ੍ਰੀਖਿਆਰਥੀ ਵੱਲੋਂ ਤਿਆਰ ਕੀਤੀਆਂ ਹੋਣ ਦਾ ਮੁਲਾਂਕਣ ਕੀਤਾ ਜਾਵੇਗਾ।

**ਨੋਟ:- ਡਰਾਈਂਗ ਸ਼ੀਟਾਂ ਅਤੇ ਪੇਟਿੰਗ ਦਾ ਹੋਰ ਸਾਰਾ ਸਾਮਾਨ ਪ੍ਰੀਖਿਆਰਥੀ ਖੁਦ ਨਾਲ ਲੈ ਕੇ ਆਵੇਗਾ।**

**ਸ਼੍ਰੇਣੀ-ਗਿਆਰ੍ਹਵੀਂ**  
**31. ਡਰਾਈਂਗ ਅਤੇ ਚਿੱਤਰਕਲਾ**  
**Drawing and Painting**

ਸਮਾਂ : 8 ਘੰਟੇ

ਕੁੱਲ ਅੰਕ : 100

ਨੋਟ: ਇਹ ਪੇਪਰ ਪੂਰਨ ਪ੍ਰਯੋਗੀ ਹੈ ਅਤੇ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਅਕ ਰਾਹੀਂ ਬੋਰਡ ਵੱਲੋਂ ਨਿਯਤ ਡੇਟ-ਸ਼ੀਟ ਅਨੁਸਾਰ ਲਿਆ ਜਾਵੇਗਾ।

**ਅੰਕਾਂ ਦੀ ਵੰਡ:-**

ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ	: 90 ਅੰਕ
ਸੀ.ਸੀ.ਈ.	: 10 ਅੰਕ
ਕੁੱਲ	: 100 ਅੰਕ
ਪਾਸ ਅੰਕ	: 33 ਅੰਕ

ਪਹਿਲਾ ਪੇਪਰ (ਭਾਗ-I)	ਸਮਾਂ: 4 ਘੰਟੇ	ਸੈਸ਼ਨ: ਸਵੇਰ
ਦੂਜਾ ਪੇਪਰ (ਭਾਗ-II)	ਸਮਾਂ: 4 ਘੰਟੇ	ਸੈਸ਼ਨ: ਸ਼ਾਮ

**ਭਾਗ-I** **ਅੰਕ : 38**

**ਫਰੀਹੈਂਡ ਸੁਤੰਤਰ ਸਵੈ-ਪ੍ਰਗਟਾਵਾ ਅਤੇ ਡੀਜ਼ਾਈਨ (Free Hand Self Expression and Design)**

**ਸਕੈਚਿੰਗ ਅਤੇ ਬਣਾਵਟ :-** ਕੁਦਰਤ ਅਤੇ ਜੀਵਨ ਅਨੁਸਾਰ ਪੰਛੀ, ਜਾਨਵਰ, ਮਨੁੱਖੀ ਆਕਾਰ ਦੇ ਚਿੱਤਰ ਤਿਆਰ ਕਰਨੇ।

**ਜਾਂ**

**ਧਰਤੀ ਦ੍ਰਿਸ਼ ਚਿੱਤਰਨ (Landscape Painting)**

ਆਪਣੀ ਯਾਦ ਸ਼ਕਤੀ ਦੁਆਰਾ ਪਹਾੜ, ਝੀਲ, ਝੋਪੜੀ, ਦਰਿਆ, ਘਰ ਅਤੇ ਦਰੱਖਤ ਆਦਿ ਦੇ ਚਿੱਤਰਾਂ ਨੂੰ ਪ੍ਰਯੋਗ ਕਰਕੇ ਕੁਦਰਤੀ ਦ੍ਰਿਸ਼ ਤਿਆਰ ਕਰਨੇ।

**ਮੀਡੀਅਮ :-** ਪੇਸਟਲ, ਪਾਣੀ ਵਾਲੇ ਰੰਗ ਅਤੇ ਤੇਲ ਵਾਲੇ ਰੰਗ

**ਜਾਂ**

**ਡੀਜ਼ਾਈਨ (Design)**

ਜਿਉਮੈਟਰੀਕਲ ਆਕਾਰ ਜਿਵੇਂ ਵਰਗ, ਆਇਤ, ਤਿਕੋਣ ਅਤੇ ਚੱਕਰ ਵਿੱਚ ਫੁੱਲ-ਪੱਤੀਆਂ, ਡੋਡੀਆਂ ਅਤੇ ਟਾਹਣੀਆਂ ਪ੍ਰਯੋਗ ਕਰਕੇ ਸੁੰਦਰ ਡੀਜ਼ਾਈਨ ਬਣਾਉਣੇ।

**ਨੋਟ :** ਸਿਰਫ਼ ਪਾਣੀ ਵਾਲੇ ਰੰਗ।

**ਭਾਗ - II**

**ਅੰਕ: 38**

**ਮਾਡਲ ਡਰਾਈਂਗ (Still Life)**

ਕੋਈ ਤਿੰਨ ਵਸਤੂਆਂ ਨੂੰ ਇਕੱਠੀਆਂ ਰੱਖਕੇ ਚਿੱਤਰਨ ਕਰਨਾ। ਇਹਨਾਂ ਵਿੱਚ ਇੱਕ ਵਰਗਾਕਾਰ ਜਾਂ ਆਇਤਾਕਾਰ ਅਤੇ ਬਾਕੀ ਦੋ ਵਸਤੂਆਂ ਗੋਲ, ਅੰਡਾਕਾਰ ਜਾਂ ਸਲੰਡਰ ਆਕਾਰ ਹੋਣ। ਮਾਡਲ ਦੇ ਪਿੱਛੇ ਡਰਾਪਰੀ ਸੈੱਟ ਕੀਤੀ ਜਾਵੇ। ਮਾਡਲ ਡਰਾਈਂਗ ਵਿੱਚ ਛਾਇਆ ਤੇ ਪਰਛਾਇਆ (Light and Shade) ਦਿਖਾਈ ਜਾਵੇ।

ਮਾਧਿਅਮ - ਪੈਨਸਿਲ ਰੰਗ, ਪੇਸਟਲ ਰੰਗ, ਪਾਣੀ ਵਾਲੇ ਰੰਗ, ਤੇਲ ਵਾਲੇ ਰੰਗ।

**ਭਾਗ - III**

**ਅੰਕ : 14**

**ਸੈਸ਼ਨਲ ਕੰਮ**

ਘੱਟੋ-ਘੱਟ 20 ਮਾਡਲ ਜੋ ਕਿ ਪ੍ਰੀਖਿਆਰਥੀ ਵੱਲੋਂ ਸਾਰੇ ਸਾਲ ਵਿੱਚ ਤਿਆਰ ਕੀਤੇ ਹੋਣ ਦਾ ਮੁਲਾਂਕਣ ਕੀਤਾ ਜਾਵੇਗਾ।

**ਨੋਟ :-** ਡਰਾਈਂਗ ਸ਼ੀਟਾਂ ਅਤੇ ਰੰਗ ਪ੍ਰੀਖਿਆਰਥੀ ਖੁਦ ਨਾਲ ਲੈ ਕੇ ਆਵੇਗਾ।

**ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ-ਰੇਖਾ (Structure of Question Paper)**

**ਡਰਾਈਂਗ ਅਤੇ ਚਿੱਤਰਕਲਾ (Drawing and Painting)**

ਸਮਾਂ : 8 ਘੰਟੇ

ਕੁੱਲ : 100 ਅੰਕ

**ਅੰਕਾਂ ਦੀ ਵੰਡ**

ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਆ	: 90 ਅੰਕ
ਸੀ.ਸੀ.ਈ.	: 10 ਅੰਕ
ਕੁੱਲ	: 100 ਅੰਕ
ਪਾਸ ਅੰਕ	: 33 ਅੰਕ

**ਭਾਗ-I****ਅੰਕ : 38**

1. ਇਹ ਪੇਪਰ ਪ੍ਰਯੋਗੀ ਡੇਟ-ਸ਼ੀਟ ਅਨੁਸਾਰ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਅਕ ਵੱਲੋਂ ਲਿਆ ਜਾਵੇਗਾ। ਇਸ ਭਾਗ ਵਿੱਚ ਪਾਠ-ਕ੍ਰਮ ਅਨੁਸਾਰ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਅਕ ਸਕੈਚਿੰਗ, ਫਰੀਹੈਂਡ ਡਰਾਈਂਗ ਅਤੇ ਡਿਜ਼ਾਈਨ ਸਬੰਧੀ ਤਿੰਨ ਪ੍ਰਸ਼ਨ ਸੈੱਟ ਕਰੇਗਾ, ਜਿਸ ਵਿੱਚੋਂ ਪ੍ਰੀਖਿਆਰਥੀ ਆਪਣੀ ਚੋਣ ਅਨੁਸਾਰ ਇੱਕ ਪ੍ਰਸ਼ਨ ਹੱਲ ਕਰੇਗਾ ਜੋ 38 ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ। ਇਸਦਾ ਸਮਾਂ 4 ਘੰਟੇ ਦਾ ਹੋਵੇਗਾ। ਇਹ ਪੇਪਰ ਸਵੇਰ ਦੇ ਸੈਸ਼ਨ ਵਿੱਚ ਸੈੱਟ ਕੀਤਾ ਜਾਵੇਗਾ।  
ਪੇਪਰ ਦਾ ਸਾਈਜ਼:- ਪੂਰੇ ਕਾਗਜ਼ ਦਾ  $\frac{1}{4}$  ਹਿੱਸਾ (35 ਸੈਂ. ਮੀ.  $\times$  25 ਸੈਂ. ਮੀ.)

**ਭਾਗ-II****ਅੰਕ : 38**

2. ਇਹ ਪੇਪਰ ਸ਼ਾਮ ਦੇ ਸੈਸ਼ਨ ਵਿੱਚ ਹੋਵੇਗਾ। ਇਸਦਾ ਸਮਾਂ 4 ਘੰਟੇ ਅਤੇ ਇਹ 38 ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ। ਇਸ ਵਿੱਚ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਅਕ ਕੋਈ ਤਿੰਨ ਵਸਤਾਂ ਇਕੱਠੀਆਂ ਰੱਖ ਕੇ ਮਾਡਲ ਸੈੱਟ ਕਰੇਗਾ ਅਤੇ ਪਿੱਛੇ ਡਰਾਪਰੀ ਸੈੱਟ ਕਰੇਗਾ। ਇਸ ਪੇਪਰ ਵਿੱਚ 13-13 ਵਿਦਿਆਰਥੀਆਂ ਦੇ ਗਰੁੱਪ ਬਣਾਏ ਜਾਣਗੇ। ਗਰੁੱਪ ਅੱਧ ਚੱਕਰ ਵਿੱਚ ਹੋਵੇਗਾ। ਪਹਿਲੇ ਲਾਈਨ ਵਿੱਚ ਸੱਤ ਵਿਦਿਆਰਥੀ ਅਤੇ ਦੂਜੀ ਲਾਈਨ ਵਿੱਚ ਛੇ ਵਿਦਿਆਰਥੀ ਬਠਾਏ ਜਾਣਗੇ। ਇਹ ਯਕੀਨੀ ਬਣਾਇਆ ਜਾਵੇ ਕਿ ਹਰ ਵਿਦਿਆਰਥੀ ਨੂੰ ਮਾਡਲ ਅਸਾਨੀ ਨਾਲ ਦਿਖਾਈ ਦੇ ਸਕੇ। ਪੇਪਰ ਦਾ ਸਾਈਜ਼:- ਪੂਰੇ ਕਾਗਜ਼ ਦਾ  $\frac{1}{4}$  ਹਿੱਸਾ (35 ਸੈਂ. ਮੀ.  $\times$  25 ਸੈਂ. ਮੀ.)

**ਭਾਗ-III****ਅੰਕ : 14**

3. ਦੋਨਾਂ ਸੈਸ਼ਨਾਂ ਦੇ ਵਿਚਕਾਰ ਇੱਕ ਘੰਟੇ ਦੇ ਸਮੇਂ ਦੌਰਾਨ ਪ੍ਰਯੋਗੀ ਪ੍ਰੀਖਿਅਕ ਪ੍ਰੀਖਿਆਰਥੀਆਂ ਦੇ ਸੈਸ਼ਨਲ ਕੰਮ ਦਾ ਮੁਲਾਂਕਣ ਕਰੇਗਾ। ਇਸਦੇ 14 ਅੰਕ ਹੋਣਗੇ। ਪ੍ਰੀਖਿਅਕ ਕੀਤੇ ਕੰਮਾਂ ਅਨੁਸਾਰ ਅੰਕ ਦੇਵੇਗਾ।

**ਅੰਕਾਂ ਦੀ ਵੰਡ:**

ਸਕੈਚਿੰਗ ਅਤੇ ਬਣਾਵਟ	: 10 ਅੰਕ
ਪ੍ਰਭਾਵ	: 10 ਅੰਕ
ਠੀਕ ਡਰਾਈਂਗ	: 10 ਅੰਕ
ਰੰਗ ਯੋਜਨਾ	: 8 ਅੰਕ
ਕੁੱਲ ਅੰਕ	: 38 ਅੰਕ

**ਧਰਤੀ ਦ੍ਰਿਸ਼ ਚਿੱਤਰਨ (Land Scape)**

ਬਣਾਵਟ	: 14 ਅੰਕ
ਸਮੁੱਚਾ ਪ੍ਰਭਾਵ	: 7 ਅੰਕ
ਠੀਕ ਡਰਾਈਂਗ	: 7 ਅੰਕ
ਰੰਗ ਯੋਜਨਾ	: 10 ਅੰਕ
ਕੁੱਲ ਅੰਕ	: 38 ਅੰਕ

**ਡਿਜ਼ਾਈਨ (Design)**

ਡਿਜ਼ਾਈਨ ਦੀ ਇਕਾਈ	: 10 ਅੰਕ
ਪੇਪਰ ਤੇ ਡਿਜ਼ਾਈਨ ਦੀ ਸੈਟਿੰਗ	: 14 ਅੰਕ
ਰੰਗ ਯੋਜਨਾ ਅਤੇ ਪ੍ਰਭਾਵ	: 14 ਅੰਕ
ਕੁੱਲ ਅੰਕ	: 38 ਅੰਕ

**ਭਾਗ-II****ਮਾਡਲ ਡਰਾਈਂਗ**

ਬਣਾਵਟ	: 7 ਅੰਕ
ਅਨੁਪਾਤ ਅਤੇ ਸਮਾਨੁਪਾਤ	: 7 ਅੰਕ
ਵਿੱਥ ਸੋਝੀ	: 6 ਅੰਕ
ਠੀਕ ਡਰਾਈਂਗ	: 10 ਅੰਕ
ਛਾਇਆ ਤੇ ਪ੍ਰਛਾਇਆ	: 8 ਅੰਕ
ਕੁੱਲ ਅੰਕ	: 38 ਅੰਕ

## CLASS - XI

### 32. ਸਰੀਰਿਕ ਸਿੱਖਿਆ ਅਤੇ ਖੇਡਾਂ

ਸਮਾਂ : 3 ਘੰਟੇ

ਥਿਊਰੀ ਭਾਗ-50 ਅੰਕ

ਪ੍ਰਯੋਗੀ ਭਾਗ - 40 ਅੰਕ

ਸੀ.ਸੀ.ਈ - 10 ਅੰਕ

ਕੁੱਲ - 100 ਅੰਕ

#### ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੀ ਰੂਪ ਰੇਖਾ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਵਿੱਚ ਕੁੱਲ 23 ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ ਅਤੇ ਇਹ ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਜ਼ਰੂਰੀ ਹਨ।
2. ਪ੍ਰਸ਼ਨ ਨੰਬਰ 1 ਤੋਂ 10 ਤੱਕ ਇੱਕ-ਇੱਕ ਅੰਕ ਵਾਲੇ ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ, ਇਹ ਓਬਜੈਕਟਿਵ ਟਾਈਪ ਵੀ ਹੋ ਸਕਦੇ ਹਨ ਅਤੇ ਇਹਨਾਂ ਦਾ ਉੱਤਰ 10 ਸ਼ਬਦਾਂ ਤੱਕ ਦਾ ਹੋ ਸਕਦਾ ਹੈ।  $10 \times 1 = 10$  ਅੰਕ
3. ਪ੍ਰਸ਼ਨ ਨੰਬਰ 11 ਤੋਂ 15 ਤੱਕ ਦੋ-ਦੋ ਅੰਕਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦਾ ਉੱਤਰ ਲਗਪਗ 20 ਸ਼ਬਦਾਂ ਤੱਕ ਹੋ ਸਕਦਾ ਹੈ।  $5 \times 2 = 10$  ਅੰਕ
4. ਪ੍ਰਸ਼ਨ ਨੰਬਰ 16 ਤੋਂ 20 ਤੱਕ ਤਿੰਨ-ਤਿੰਨ ਅੰਕਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ। ਜਿਨ੍ਹਾਂ ਦਾ ਉੱਤਰ ਲਗਪਗ 30 ਤੋਂ 50 ਸ਼ਬਦਾਂ ਤੱਕ ਹੋ ਸਕਦਾ ਹੈ।  $5 \times 3 = 15$  ਅੰਕ
5. ਪ੍ਰਸ਼ਨ ਨੰਬਰ 21 ਤੋਂ 23 ਪੰਜ-ਪੰਜ ਅੰਕਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ ਹੋਣਗੇ, ਇਹਨਾਂ ਵਿੱਚ ਕੁੱਲ 5 ਪ੍ਰਸ਼ਨ ਦਿੱਤੇ ਜਾਣਗੇ ਜਿਨ੍ਹਾਂ ਵਿੱਚੋਂ ਕੁੱਲ 3 ਪ੍ਰਸ਼ਨ ਹੱਲ ਕਰਨੇ ਜ਼ਰੂਰੀ ਹਨ।  $3 \times 5 = 15$  ਅੰਕ

#### ਪਾਠਕ੍ਰਮ (ਲਿਖਤੀ ਭਾਗ)

ਪਾਠ ਪਹਿਲਾ ਸਿਹਤ ਸਿੱਖਿਆ

(ੳ) ਸਿਹਤ ਦੀ ਪਰਿਭਾਸ਼ਾ (ਅ) ਸਿਹਤ ਦੀਆਂ ਕਿਸਮਾਂ (ੲ) ਸਿਹਤ ਦੇ ਉਦੇਸ਼ (ਸ) ਸਿਹਤ ਦੇ ਸਿਧਾਂਤ

(ਹ) ਸਿਹਤ ਸੰਬੰਧੀ ਉਪਾਅ (ਕ) ਸਿਹਤ ਸਿੱਖਿਆ ਦਾ ਖੇਤਰ

ਪਾਠ ਦੂਜਾ ਸਰੀਰਿਕ ਸਿੱਖਿਆ ਅਤੇ ਇਸ ਦੀ ਮਹੱਤਤਾ

(ੳ) ਸਿਹਤ ਸਿੱਖਿਆ ਦਾ ਟੀਚਾ ਅਤੇ ਉਦੇਸ਼ (ਅ) ਖੇਤਰ (ੲ) ਮਹੱਤਵ

ਪਾਠ ਤੀਜਾ ਸਰੀਰਿਕ ਰਚਨਾ ਅਤੇ ਕਿਰਿਆ ਵਿਗਿਆਨ ਦੀ ਜਾਣ ਪਛਾਣ

(ੳ) ਸਰੀਰਿਕ ਰਚਨਾ ਵਿਗਿਆਨ (ਅ) ਸਰੀਰਿਕ ਕਿਰਿਆ ਵਿਗਿਆਨ (ੲ) ਸਰੀਰਿਕ ਸਿੱਖਿਆ ਅਤੇ ਖੇਡਾਂ ਦੇ ਖੇਤਰ ਵਿੱਚ ਸਰੀਰਿਕ ਰਚਨਾ ਵਿਗਿਆਨ ਅਤੇ ਸਰੀਰਿਕ ਕਿਰਿਆ ਵਿਗਿਆਨ ਦਾ ਯੋਗਦਾਨ

ਪਾਠ ਚੌਥਾ ਯੋਗ

(ੳ) ਪਰਿਭਾਸ਼ਾ (ਅ) ਇਤਿਹਾਸ (ੲ) ਅਰਥ (ਸ) ਮਹੱਤਤਾ (ਹ) ਯੋਗ ਕਰਨ ਸਮੇਂ ਨਿਰਧਾਰਿਤ ਦਿਸ਼ਾ ਨਿਰਦੇਸ਼ (ਕ) ਸੂਰਿਯ ਨਮਸਕਾਰ (ਖ) ਅਸ਼ਟਾਂਗ ਯੋਗ।

ਪਾਠ ਪੰਜਵਾਂ ਨਸ਼ਿਆਂ ਅਤੇ ਡੋਪਿੰਗ ਦੇ ਮਾਰੂ ਪ੍ਰਭਾਵ।

(ੳ) ਨਸ਼ਿਆਂ ਦੀਆਂ ਕਿਸਮਾਂ (ਅ) ਨਸ਼ੇ ਕਰਨ ਦੇ ਕਾਰਨ (ੲ) ਨਸ਼ਿਆਂ ਦਾ ਖਿਡਾਰੀਆਂ, ਪਰਿਵਾਰ, ਸਮਾਜ ਅਤੇ ਦੇਸ਼ 'ਤੇ ਪ੍ਰਭਾਵ (ਸ) ਡੋਪਿੰਗ ਦਾ ਅਰਥ, ਡੋਪਿੰਗ ਦੇ ਸਰੀਰ 'ਤੇ ਪ੍ਰਭਾਵ (ਹ) ਅੰਤਰਰਾਸ਼ਟਰੀ ਉਲੰਪਿਕ ਕਮੇਟੀ

ਪਾਠ ਛੇਵਾਂ ਖੇਡ ਮਨੋਵਿਗਿਆਨ

(ੳ) ਅਰਥ (ਅ) ਪਰਿਭਾਸ਼ਾ (ੲ) ਖੇਤਰ (ਸ) ਸ਼ਾਖਾਵਾਂ (ਹ) ਮਨੋਵਿਗਿਆਨਿਕ ਤੱਤ (ਕ) ਪ੍ਰੇਰਨਾ

ਪਾਠ ਸੱਤਵਾ ਟੂਰਨਾਮੈਂਟ

(ੳ) ਟੂਰਨਾਮੈਂਟ ਦੀਆਂ ਕਿਸਮਾਂ (ਅ) ਫਿਕਚਰ ਦੇਣ ਦਾ ਢੰਗ (ੲ) ਲੀਗ ਅਤੇ ਨਾਕਆਉਟ  
ਟੂਰਨਾਮੈਂਟ ਦੇ ਲਾਭ ਅਤੇ ਹਾਨੀਆਂ।

### ਪਾਠਕ੍ਰਮ (ਪ੍ਰਯੋਗੀ)

ਸਮਾਂ 4 ਘੰਟੇ

ਪ੍ਰਯੋਗੀ : 40 ਅੰਕ

ੳ) ਟਰੈਕ ਅਤੇ ਫੀਲਡ ਦੀ ਈਵੈਂਟਸ (ਲੜਕੇ ਅਤੇ ਲੜਕੀਆਂ ਲਈ) ਹਰੇਕ ਈਵੈਂਟ ਦੇ 6 ਅੰਕ ਹੋਣਗੇ।

ਹੇਠ ਲਿਖਿਆਂ ਵਿੱਚੋਂ ਕੋਈ ਦੋ ਈਵੈਂਟਸ ਇੱਕ ਟਰੈਕ ਵਿੱਚੋਂ ਅਤੇ ਇੱਕ ਫੀਲਡ ਵਿੱਚੋਂ ਚੁਣੀਆਂ ਜਾ ਸਕਦੀਆਂ ਹਨ।

**ਟਰੈਕ ਈਵੈਂਟਸ :-** 100 ਮੀਟਰ ਦੌੜ , 200 ਮੀਟਰ ਦੌੜ, 400 ਮੀਟਰ ਦੌੜ, 800 ਮੀਟਰ ਦੌੜ, 3000

ਮੀਟਰ ਦੌੜ ਅਤੇ ਲੜਕੀਆਂ ਲਈ 110 ਮੀਟਰ ਹਰਡਲ (ਹਰਡਲ ਦੀ ਉਚਾਈ 96.4 ਸੈ.ਮੀ. ਅਤੇ 10

ਹਰਡਲਾਂ), ਲੜਕੀਆਂ ਲਈ 100 ਮੀਟਰ (ਹਰਡਲ ਦੀ ਉਚਾਈ 76.2 ਸੈ.ਮੀ.) ਅਤੇ 8 ਹਰਡਲਾਂ, 4×100

ਮੀਟਰ (ਲੜਕੀਆਂ ਵਾਸਤੇ) ਅਤੇ 4×100 ਮੀਟਰ (ਲੜਕੀਆਂ ਵਾਸਤੇ) ਰਿਲੇਅ ਦੌੜ **6 ਅੰਕ**

**ਫੀਲਡ ਈਵੈਂਟਸ:-** ਹੈਮਰ ਥਰੋ, ਡਿਸਕਸ ਥਰੋ, ਜੈਵਲਿਨ ਥਰੋ, ਸ਼ਾਟ ਪੁੱਟ, ਲੰਮੀ ਛਾਲ, ਉੱਚੀ ਛਾਲ, ਤੀਹਰੀ ਛਾਲ, ਪੋਲ ਵਾਲਟ **6 ਅੰਕ**

ਅ) ਹੇਠ ਲਿਖੇ ਦੋਨੋਂ ਗਰੁੱਪਾਂ ਵਿੱਚੋਂ ਕੋਈ ਇੱਕ-ਇੱਕ ਖੇਡ ਦੀ ਚੋਣ ਕਰਨੀ ਲਾਜ਼ਮੀ ਹੈ। ਹਰੇਕ ਖੇਡ ਦੇ 5 ਅੰਕ ਹੋਣਗੇ।

ਖੇਡਾਂ (ਲੜਕੇ ਅਤੇ ਲੜਕੀਆਂ ਲਈ)।

**ਗਰੁੱਪ 1.** ਹੈਂਡਬਾਲ, ਕਬੱਡੀ, ਮੁੱਕੇਬਾਜ਼ੀ, ਟੇਬਲ ਟੈਨਿਸ, ਜਿਮਨਾਸਟਿਕ, ਫੁੱਟਬਾਲ। **5 ਅੰਕ**

**ਗਰੁੱਪ 2.** ਬਾਸਕਟਬਾਲ, ਯੋਗ, ਗਤਕਾ, ਵਾਲੀਬਾਲ, ਐਥਲੈਟਿਕਸ, ਸਰਕਲ ਕੱਬਡੀ। **5 ਅੰਕ**

ਸ) ਖੇਡਾਂ ਵਿੱਚ ਪ੍ਰਾਪਤੀ (ਵੱਧ ਤੋਂ ਵੱਧ 10 ਅੰਕ) ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਅੰਕ ਦਿੱਤੇ ਜਾਣਗੇ।

ਸਕੂਲ ਪ੍ਰਤੀਨਿਧਤਾ **2 ਅੰਕ**

ਜ਼ੋਨ ਪ੍ਰਤੀਨਿਧਤਾ **4 ਅੰਕ**

ਜ਼ਿਲ੍ਹਾ ਪ੍ਰਤੀਨਿਧਤਾ **6 ਅੰਕ**

ਰਾਜ ਪ੍ਰਤੀਨਿਧਤਾ **8 ਅੰਕ**

ਕੌਮੀ ਪ੍ਰਤੀਨਿਧਤਾ **10 ਅੰਕ**

ਹ) ਪ੍ਰੈਕਟੀਕਲ ਕਾਪੀ, ਚਾਰਟ ਜਾਂ ਮਾਡਲ **3 ਅੰਕ**

ਕ) ਜ਼ੁਬਾਨੀ ਪ੍ਰਸ਼ਨ-ਉੱਤਰ **5 ਅੰਕ**

**ਨੋਟ :** ਪ੍ਰੈਕਟੀਕਲ ਦੇਣ ਸਮੇਂ ਪ੍ਰੀਖਿਆਰਥੀ ਸਪੋਰਟਸ ਕਿੱਟ ਵਿੱਚ ਹੋਣਾ ਚਾਹੀਦਾ ਹੈ।

**ਨੋਟ :-** ਸਮੂਹ ਸਰੀਰਿਕ ਸਿੱਖਿਆ ਅਤੇ ਖੇਡਾਂ ਦੇ ਅਧਿਆਪਕਾਂ ਨੂੰ ਹਦਾਇਤ ਕੀਤੀ ਜਾਂਦੀ ਹੈ ਕਿ ਵਿਦਿਆਰਥੀਆਂ ਲਈ ਅਲੱਗ ਤੋਂ ਕੋਈ ਵੀ ਪ੍ਰੈਕਟੀਕਲ ਨੋਟ ਬੁੱਕ ਆਦਿ ਨਾ ਲਗਾਈ ਜਾਵੇ ਅਤੇ ਪ੍ਰੈਕਟੀਕਲ/ਕਿਰਿਆਵਾਂ ਨੂੰ ਪਾਠ-ਕ੍ਰਮ ਦੇ ਨਾਲ ਨਾਲ ਕਰਵਾਈਆਂ ਜਾਣ ਅਤੇ ਵਿਦਿਆਰਥੀਆਂ ਦੁਆਰਾ ਇਹਨਾਂ ਕਿਰਿਆਵਾਂ ਨੂੰ ਸਧਾਰਨ ਨੋਟ ਬੁੱਕ ਵਿੱਚ ਹੀ ਲਿਖ ਲਿਆ ਜਾਵੇ।

**CLASS-XI**  
**33. MEDIA STUDIES**

**Time: 3 Hrs**

**Theory Paper: 70 Marks**

**CCE: 10 Marks**

**Practical: 20 Marks**

**Total: 100 Marks**

**OBJECTIVES**

Communication media have under gone big changes during a couple of decades and made its importance more meaningfully and abundantly felt. This has made our society awake in era of various new concepts and phenomena such as globalization, social media, civil society, new media and so on. It is being felt that communication media are playing an important role in shaping young minds, hence introductory information and practice is to be provided to students in this subject, at this stage.

**STRUCTURE OF QUESTION PAPER (THEORY)**

1. There will be 27 questions in all.
2. All the questions shall be compulsory which shall be set keeping in mind that the subject matter is for beginners.
3. Part-I of the question paper shall consist of 8 questions of 1 mark each all objective type, to be set from whole of syllabus.  
**1×8=8**
4. Part-II of the question paper shall consist of 10 short answer questions of 2 marks each. The answer to such questions may run into two to three sentences. All questions shall cover whole of the syllabus.  
**2×10=20**
5. Part-III of the question paper shall consist of 6 question of 4 marks each, of a paragraph or two in size or length, selecting three each from each unit.  
**4×6=24**
6. Fourth part of the question paper shall contain 3 questions of 6 marks each, with 100% internal choice, atleast 3 chosen from each unit. Each answer shall run into 300 words minimum.  
**6×3=18**

Forms of Questions	Objective type Multiple choice Questions	Short Answer-I	Short Answer-II	Long Answer Questions	Any other
Number of Questions	08	10	06	03	
Marks allotted	08	20	24	18	
Percentage of Marks	12.5	27	35.5	25	

**THEORY**  
**SYLLABUS**

**Unit I Introduction to Communication**

- I. Communication: Meaning, Definition and Types: Intrapersonal, Interpersonal, Group, Public and Mass Communication.

- II. Media of Communication: Body language, Spoken word, Printed word, Symbols and Pictures.
- III. Language in Media Writing: Basic difference between Media Writing and Literary Writing, Words & Terms generally used wrong in Punjabi & English.
- IV. Types of Media: Traditional, Newspaper, Radio, Television, Cinema and Cyber.

## **Unit II News Media**

- V. Understanding Newspapers: News Stories, Editorial, Articles, Features, Letters to editor, Advertisements.
- VI. Subject Matter for Newspapers: News and its types, Views and its types, Advertisement and its types.
- VII. Magazines: Difference between books & magazines, Types of write ups in general and Punjabi Magazines in particular (Special emphasis on Primary Sikheya, Pankhriyan, Akhar, Changi Kheti & Kahani Punjab).
- VIII. Introduction to Public Relation: Definition and Tools of P.R.

## **VIVA VOCE (Practical)**

### **Paper- II**

- 1. Clipping file : Each student shall require to submit a clipping file consisting of 12 items, 2 each from following topics; Development News , Political Report, Photo Feature, Middle, News Analysis , Advertisement.
- 2. Teleboard display and news reading.
- 3. Viva: The examiner shall ask the candidate questions on visit to any news paper office and Current Affairs (national and regional) related to running academic session period.

**CLASS-XI**  
**34. PHYSICS**

**Time: 3 Hrs**

**Theory: 70Marks**  
**Practical: 20 Marks**  
**C.C.E.: 10 Marks**  
**Total: 100 Marks**

**STRUCTURE OF QUESTION PAPER (THEORY)**

1. There will be one theory paper comprising of 26 questions.
2. Question no. 1 to 8 will be of one mark each.
3. Question no.9 to 16 will be of two marks each.
4. Question no. 17 to 23 will be of four marks each. There will be internal choice in any two questions.
5. Question no. 24 to 26 will be of six marks each. There will be 100% internal choice in them.
6. Distribution of marks over different dimensions of the paper will be as follows:

LEARNING OUTCOMES	MARKS	PERCENTAGE OF MARKS
KNOWLEDGE	26	36%
UNDERSTANDING	30	44%
APPLICATION	14	20%
<b>Total</b>	<b>70</b>	<b>100%</b>

7. In the category of one (1) mark question there will be four (4) questions of the objective type such as Yes/No, tick/cross, fill in the blanks, multiple choice, true/false etc.
8. Use of un-programmable calculator is allowed. The log tables can be used.
9. Total weightage of numerical will be 20% i.e 14 marks. There will be three numerical of 2 marks each & 2 numericals of 4 marks each.

**UNIT WISE DISTRIBUTION OF MARKS**

UNIT	TITLE	MARKS
UNIT-I	Physical world and measurement	05
UNIT-II	Kinematics	07
UNIT-III	Laws of motion	07
UNIT-IV	Work, Energy & Power	07
UNIT-V	Motion of System of Particles & Rigid body	09
UNIT-VI	Gravitation	06
UNIT-VII	Properties of Bulk matter	12
UNIT-VIII	Thermodynamics	05
UNIT-IX	Behaviour of perfect gas and kinetic theory of gases	05
UNIT-X	Oscillation & waves	07
<b>Total Marks</b>		<b>70</b>



### SCHEMATIC DISTRIBUTION OF MARKS

UNIT	TITLE	1 MARK QUESTION	2 MARKS QUESTION	4 MARKS QUESTION	6 MARKS QUESTION	TOTAL MARKS
1	Physical world & measurement	1	2	-	-	05
2	Kinematics	1	1	1	-	07
3	Laws of motion	1	1	1	-	07
4	Work, Energy & Power	1	1	1	-	07
5	Motion of System Particles & Rigid body	1	1	-	1	09
6	Gravitation	-	1	1	-	06
7	Properties of matter	-	1	1	1	12
8	Thermodynamics	1	-	1	-	05
9	Behaviour of Perfect gas & Kinetic theory of gases	1	-	1	-	05
10	Oscillation & waves	1	-	-	1	07
<b>Total Questions</b>		<b>08</b>	<b>08</b>	<b>07</b>	<b>03</b>	<b>26</b>
<b>Total Marks</b>		<b>08</b>	<b>16</b>	<b>28</b>	<b>18</b>	<b>70</b>

### INSTRUCTIONS FOR PAPER SETTER

**Note:**

1. There will be one theory paper consisting of total 26 questions.
2. Question no.1 to 8 will be of 1 mark each. There will be 4 questions of the objective type such as yes/no, multiple choice questions, fill in the blanks.
3. Question no.9 to 16 will be of 2 marks each. There will be 3 numerical questions of 2 marks each.
4. Question no. 17 to 23 will be of 4 marks each. There will be two four marks questions of internal choice. Each of these questions will have one theory question & other part will be numerical from the same unit. These questions should not be lengthy.
5. Question No.24 to 26 will be 6 marks and their will be 100% internal choice in them. These questions must have two parts: part (a) will be of one mark and part (b) will be of 5 marks. Part (a) may cover any topic from same unit as of long 5 marks question of part (b).
6. Questions paper should cover all the syllabus.
7. No question or topic should be repeated in the question paper.
8. Questions in the paper can be asked only from mentioned PSEB syllabus. Questions from any topic which is not mentioned in the syllabus will be considered as out of syllabus question.
9. All 3 sets must be of equal standard and difficulty level questions.
10. At the end of each question, paper setter must write detailed distribution of marks of each sub-question.
11. Vague, many possible answer questions, confusing answer question etc type of question will not be asked in the paper. One mark questions, answer should be of one word or one line only.
12. Language used should be clearly understood & specific.
13. Time and length limit of paper should be kept in mind.
14. Time and length limit of paper should be kept in mind while setting the paper.

## SYLLABUS (THEORY)

### Unit I : Physical World and Measurement

Physics-scope and excitement; nature of physical laws; Physics, technology and society.

Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. Length, mass and time measurements; accuracy and precision of measuring instruments; errors in measurement, significant figures.

Dimensions of physical quantities, dimensional formula and dimensional equation dimensional analysis and its applications.

### Unit II : Kinematics

Frame of reference. Motion in a straight line: Position-time graph, speed and velocity.

Uniform and non-uniform motion, average speed and instantaneous velocity.

Uniformly accelerated motion, velocity-time, position-time graphs, relations for uniformly accelerated motion (graphical treatment).

Elementary concepts of differentiation and integration for describing motion, Scalar and vector quantities: Position and displacement vectors, general vectors and notation, equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors. Relative velocity.

Unit vector: Resolution of a vector in a plane - rectangular components. Scalar and vector product of vectors. Motion in a plane. Cases of uniform velocity and uniform acceleration-projectile motion. Uniform circular motion.

### Unit III : Laws of Motion

Intuitive concept of force. Inertia. Newton's first law of motion; momentum and Newton's second law of motion; impulse: Newton's third law of motion. Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces. Static and kinetic friction, laws of friction. rolling friction, lubrication.

Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on level circular road. vehicle on banked road).

### Unit -IV: Work, Energy and Power

Scalar product, Work done by a constant force and a variable force; kinetic energy, work-energy theorem, power.

Notion of potential energy, potential energy of a spring, conservative forces: conservation of mechanical energy (kinetic and potential energies); non-Conservative forces, various forms of energy, motion in a vertical circle; elastic and inelastic collisions in one and two dimensions.

## **Unit-V: Motion of System of Particles and Rigid Body**

Centre of mass of a two-particle system, momentum conservation and centre of mass motion. Centre of mass of a rigid body; linear momentum of system of particles, vector product of two vectors, centre of mass of uniform rod. Angular velocity and its relation with linear velocity.

Moment of a force, torque, angular momentum, conservation of angular momentum with some examples.

Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions; moment of inertia, radius of gyration.

Values of moments of inertia for simple geometrical objects (no derivation). Statement of parallel and perpendicular axes theorems and their applications. Kinematics of rotational motions about a fixed axis, dynamics of rotational motions about a fixed axis, angular momentum in case of rotation about a fixed axis, rolling motion.

## **Unit-VI: Gravitation**

Kepler's laws of planetary motion. The universal law of gravitation.

Acceleration due to gravity and its variation with altitude and depth.

Gravitational potential energy; gravitational potential. Escape velocity, Orbital velocity of a satellite. Geo-stationary satellites. Energy of an orbiting satellite, Geo-stationary satellites and polar satellites, weightlessness.

## **Unit-VII: Properties of Bulk Matter**

Elastic behaviour, of solids, Stress-strain relationship, Hooke's law, Young's modulus, determination of Young's modulus of the material of a wire, shear, bulk modulus shear, modulus of rigidity, applications of elastic behaviour of materials, Poisson's ratio; elastic energy.

Pressure due to a fluid column Pascal's law and its applications (hydraulic lift and hydraulic brakes). Effect of gravity on fluid pressure.

Viscosity, Stokes' law, terminal velocity, Reynold's number, streamline and turbulent flow. Critical velocity. Bernoulli's theorem and its applications.

Surface energy and surface tension, angle of contact, excess of pressure, application of surface tension ideas to drops, bubbles and capillary rise, Detergents and surface tension.

Heat, temperature, measurement of temperature, ideal gas equation and absolute temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion, specific heat Capacity:  $C_p$ ,  $C_v$ -colorimetry; change of state-latent heat.

Heat transfer-conduction, convection radiation and thermal Conductivity, Qualitative idea of Blackbody radiation, Newton's law of cooling and Stefan's law, Wein's displacement law, Green House effect.

### **Unit-VIII: Thermodynamics**

Thermal equilibrium and definition of temperature (zeroth law of thermodynamics). Heat, work and internal energy. First law of thermodynamics. Specific heat capacity, thermodynamic state variables and equation of state, thermodynamic processes, Isothermal and adiabatic processes. Second law of thermodynamics: reversible and irreversible processes. Heat engines and refrigerators, Carnot engine.

### **Unit-IX: Behaviour of Perfect Gas and Kinetic Theory**

Molecular nature of matter, Equation of state of a perfect gas, work done on compressing a gas. Kinetic theory of an ideal gases. Assumptions, concept of pressure. Kinetic energy and temperature; rms, speed of gas molecules; degrees of freedom, law of equipartition of energy (statement only) and application to specific heat capacities of gases, solids and water: concept of mean free path, Avogadro's number.

### **Unit-X: Oscillations and Waves**

Periodic and oscillatory motions, Periodic motion - period, frequency, displacement as a function of time. Periodic functions. Simple harmonic motion (S.H.M) and its equation; phase; oscillations of a spring-restoring force and force constant; energy in S.H.M.-kinetic and potential energies: some systems executing simple harmonic motion simple pendulum-derivation of expression for its time period: free, forced and damped oscillations (qualitative ideas only), resonance.

Wave motion. Longitudinal and transverse waves, speed of wave motion. Displacement-relation for a progressive wave. Principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats, Doppler effect.

**NOTE:-** TOPICS GIVEN BELOW ARE IN PRESCRIBED SYLLABUS OF P.S.E.B. BUT NOT MENTIONED IN BOOK SURSCRIBED BY PSEB. SO THESE TOPICS ARE TO BE DONE WITH STUDENTS AND PAPER WILL INCLUDD THESE TOPICS AND QUESTIONS FROM THESE TOPICS TOPICS ARE NOT CONSIDERD AS OUT OF SYLLABUS.

1. Motion in a vertical circle
2. Centre of mass of uniform rod
3. Poiwsson'-ratio; elastic energy
4. Terminal ve;ocity
5. Qualitative idea of Blackbody radiation,
6. Stefan'a law, Wein's displacement law, Green House effect.
7. Definition of temperature
8. Work done on compressing a gas
9. Avogadro's number.

## STRUCTURE OF PAPER (PRACTICAL)

**Time : 3 hrs.**

**Total : 20 Marks**

Two experiment	10
Record of Activities	2
Viva on Activities	3
Record of Experiments	2
Viva of Experiments	3
<b>Total</b>	<b>20</b>

## PRACTICAL SYLLABUS

### Experiments

1. Use of Vernier Callipers
  - (i) To measure diameter & volume and volume of a small spherical/cylindrical body.
  - (ii) To measure the dimensions of given rectangular body of known mass and hence to determine its density.
  - (iii) To measure internal diameter and depth of a given beaker/ calorimeter and hence find its volume.
2. Use of screw gauge
  - (i) to measure diameter & volume of a given wire,
  - (ii) to measure thickness of a given sheet
  - (ii) to measure volume of an irregular lamina
3. To determine radius of curvature of a given spherical surface by a spherometer.
4. To find the weight of a given body using parallelogram law of vectors addition.
5. Using a simple pendulum, plot L-T and L-T<sup>2</sup> graphs. Hence find the effective length of second's pendulum using appropriate graph.
6. To study the relationship between force of limiting friction and normal reaction and to find co-efficient of friction between a block and a horizontal surface.
7. To find the downward force, along an inclined plane, acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination ( $\theta$ ) by plotting graph between force and  $\sin\theta$ .
8. To determine the mass of two different objects using a beam balance.

### SECTION-B

1. To determine young's modulus of a given wire by using searle's apparatus.
2. To find out the spring constant of a helical spring from its load-extension graph.

3. To find force constant and effective mass of a helical spring by plotting  $T^2$  -m graph using method of oscillation.
4. To study the variation in volume (V) with pressure (P) for a sample of air at constant temp. by plotting graphs between P&V and between P &  $1/V$ .
5. To determine the surface tension of water by capillary rise method.
6. To determine the coefficient of viscosity of a given liquid by measuring the terminal velocity of spherical body.
7. To study the relationship between the temperature of a hot body and time by plotting a cooling curve.
8. To determine the specific heat capacity of a given (i) solid (ii) liquid by method of mixtures.
9. (i) To study the relation between frequency and length of a given wire under constant tension using sonometer.  
(ii) To study the relation between the length of a given wire and tension for constant frequency using sonometer.
10. To find the speed of sound in air at room temperature using a resonance tube by two-resonance positions.

### **Activities**

1. To make a paper scale of given least count, e.g. 0.2cm, 0.5 cm.
2. To determine mass of a given body using a metre scale by principle of moments.
3. To plot a graph for a given set of data, with proper choice of scales and error bars.
4. To measure the force of limiting friction for rolling of a roller on a horizontal plane.
5. To study the variation in range of a jet of water with angle of projection.
6. To study the conservation of energy of a ball rolling down on inclined plane (using a double inclined plane).
7. To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time.
8. To observe change of state and plot a cooling curve for molten wax.
9. To observe and explain the effect of heating on a bi-metallic strip.
10. To note the change in level of liquid in a container on heating and interpret the observations.
11. To study the effect of detergent on surface tension of water by observing capillary rise.
12. To study the factors affecting the rate of loss of heat of a liquid.
13. To study the effect of load on depression of a suitably clamped metre scale loaded.

- (i) at its end (ii) in the middle.
14. To determine the radius of gyration about the centre of mass of a metre scale used as a bar pendulum.
  15. To demonstrate uniform motion in a straight line of a body in glycerine (any viscous liquid) in a glass plastic tube in a burette.
  16. To show that a centripetal force is necessary for moving a body with a uniform speed along a circle and that magnitude of the force increases with angular speed using glass tube & slotted weights.
  17. To show interconversion of potential & kinetic energy using Maxwell's wheel.
  18. To show conservation of momentum using bipolar pendulums.
  19. To show that moment of inertia of a rod changes with the change of positions of a pair of equal weights attached to the rod.
  20. To show the rise of water in capillary tubes of different diameters with the help of glass sheet.

**CLASS - XI**  
**35. CHEMISTRY**

**Time: 3 Hrs**

**Theory: 70 Marks**  
**Practical: 20 Marks**  
**C.C.E.: 10 Marks**  
**Total: 100 Marks**

**STRUCTURE OF QUESTION PAPER (THEORY)**

- 1 There will be one theory paper comprising of 26 questions. All questions are compulsory.
- 2 Question no. 1 to 8 will be of one mark each. All questions are compulsory.
- 3 Question no. 9 to 16 will be of two marks each. All questions are compulsory.
- 4 Question no.17 to 23 will be of four marks each. There will be internal choice in two questions.
- 5 Question no.24 to 26 will be of six marks each. There will be internal choice in them.
- 6 Distribution of marks over different dimensions of the paper will be as follows.

LEARNING OUTCOMES	PERCENTAGE OF MARKS
KNOWLEDGE	36%
UNDERSTANDING	44%
APPLICATION	20%
Total	100%

- 7 There will be question of the objective type such as Yes/No, tick/cross, fill in the blanks, multiple choice, true/false and definition etc.
- 8 Use of un-programmable calculator is allowed. The log tables can be used.
- 9 Total weightage of numerical will be 20%

**UNITWISE DISTRIBUTION OF MARKS**

SR.NO	UNIT	TOTAL MARK
1	Some Basic Concept of Chemistry	05
2	Structure of Atom	06
3	Classification of Elements and Periodicity in Properties	05
4	Chemical Bonding and Molecular Structure	06
5	Hydrogen	05
6	S-Block Elements (Alkali and Alkaline Earth Metals)	05
7	Organic Chemistry- Some Basic Principles and Techniques	05
8	Status of Matter: Gases and Liquids	05
9	Thermodynamics	05
10	Equilibrium	06
11	Redox Reaction	04
12	Some p-Block Elements, General introduction to p-Block Elements	05
13	Hydrocarbons	06
14	Environmental Chemistry	02
	<b>TOTAL QUESTIONS &amp;TOTAL MARKS</b>	<b>T.Q=26</b> <b>T.M=70</b>

**Total Question in paper =26 including 5 choice questions**



### SCHEMATIC DISTRIBUTION OF MARKS

Sr. No	UNIT	1 MARK	2 MARK	4 MARK	6 MARK	TOTAL MARK
1	Some Basic Concept of Chemistry	1	-	1	-	05
2	Structure of Atom	-	-	-	1	06
3	Classification of Elements and Periodicity in Properties	1	2	-	-	05
4	Chemical Bonding and Molecular Structure	-	-	-	1	06
5	Hydrogen	1	-	1	-	05
6	S-Block Elements (Alkali and Alkaline Earth Metals)	1	-	1	-	05
7	Organic Chemistry- Some Basic Principles and Techniques	1	-	1	-	05
8	Status of Matter: Gases and Liquids	1	-	1	-	05
9	Thermodynamics	1	-	1	-	05
10	Equilibrium	-	1	1	-	06
11	Redox Reaction	-	2	-	-	04
12	Some p-Block Elements, General introduction to p-Block Elements	1	2	-	-	05
13	Hydrocarbons				1	06
14	Environmental Chemistry	-	1	-	-	02
	TOTAL QUESTIONS & TOTAL MARKS	T.Q=8 T.M=8	T.Q=8 TM=16	T.Q=7 T.M=2 8	T.Q=3 T.M=1 8	T.Q=26 T.M=7 0

**Total Question in paper =26 including 5 choice questions**

#### INSTRUCTIONS FOR PAPER SETTER

**Note:**

1. There will be one theory paper consisting of total 26 questions.
2. Question no.1 to 8 will be of 1 mark each. There will be 4 questions of the objective type such as yes/no, multiple choice questions, fill in the blanks.
3. Question no.9 to 16 will be of 2 marks each. There will be 3 numerical questions of 2 marks each.
4. Question no. 17 to 23 will be of 4 marks each. There will be two four marks questions of internal choice. These questions should not be lengthy.
5. Question No.24 to 26 will be 6 marks and their will be 100% internal choice in them. These questions must have two parts: part (a) will be of one mark and part (b) will be of 5 marks. Part (a) may cover any topic from same unit as of long 5 marks question of part (b).
6. Questions paper should cover all the syllabus.
7. No question or topic should be repeated in the question paper.
8. Questions in the paper can be asked only from mentioned PSEB syllabus. Questions from any topic which is not mentioned in the syllabus will be considered as out of syllabus question.
9. All 3 sets must be of equal standard and difficulty level questions.
10. At the end of each question, paper setter must write detailed distribution of marks of each sub-question.

11. Vague, many possible answer questions, confusing answer question etc type of question will not be asked in the paper. One mark questions, answer should be of one word or one line only.
12. Language used should be clearly understood & specific.
13. Time and length limit of paper should be kept in mind.
14. Time and length limit of paper should be kept in mind while setting the paper.
15. Questions paper should be made to according to knowledge, understanding and applications part marks distribution.

## **SYLLABUS (THEORY)**

### **Unit-I      Some Basic Concepts of Chemistry**

General introduction: Importance and scope of chemistry. Historical approach to particulate nature of matter, laws of chemical combination. Dalton's atomic theory: concept of elements, atoms and molecules. Atomic and molecular masses. Mole concept and molar mass: percentage composition, empirical and molecular formula; chemical reactions, stoichiometry and calculations based on stoichiometry.

### **Unit-II      Structure of Atom**

Discovery of electron, proton and neutron; atomic number, isotopes and isobars. Thomson's model and its limitations, Rutherford's model and its limitations. Bohr's model and its limitations, concept of shells and subshells, dual nature of matter and light, De Broglie's relationship, Heisenberg uncertainty principle, concept of orbitals, quantum numbers, shapes of s, p, and d orbitals, rules for filling electrons in orbitals - Aufbau principle, Pauli exclusion principle and Hund's rule, electronic configuration of atoms, stability of half filled and completely filled orbitals.

### **Unit-III      Classification of Elements and Periodicity in Properties**

Significance of classification, brief history of the development of periodic table, modern periodic law and the present form of periodic table, periodic trends in properties of elements -atomic radii, ionic radii, Inert gas radii. Ionization enthalpy, electron gain enthalpy, electronegativity, valence, Nomenclature of elements with atomic number greater than 100.

### **Unit-IV      Chemical Bonding and Molecular Structure**

Valence electrons, ionic bond, bond parameters, covalent bond. Lewis structure, polar character of covalent bond, covalent character of ionic bond, valence bond theory. resonance, geometry of covalent molecules, VSEPR theory, concept of hybridization involving s, p and d orbitals and shapes of some simple molecules, Molecular orbital theory of homonuclear diatomic molecules(qualitative idea only), hydrogen bond.

## **Unit-V States of Matter: Gases and Liquids**

Three states of matter. Intermolecular interactions, types of bonding, melting and boiling points. Role of gas laws in elucidating the concept of the molecule, Boyle's law. Charles' law, Gay Lussac's law, Avogadro's law. Ideal behaviour, empirical derivation of gas equation, Avogadro's number. Ideal gas equation. Derivation from ideal behaviour, liquifaction of gases, critical temperature, kinetic energy and molecular speeds (elementary idea) derivation from ideal behaviour, liquification of gasses, critical temperature

Liquid State - Vapour pressure, viscosity and surface tension (qualitative idea only, no mathematical derivations).

## **Unit-VI Thermodynamics**

Concepts of System, types of systems, surroundings. Work, heat, energy, extensive and intensive properties, state functions.

First law of thermodynamics - internal energy and enthalpy heat capacity and specific heat measurement of  $\Delta U$  and  $\Delta H$ , Hess's law of constant heat summation, enthalpy of: bond dissociation, combustion, formation, atomization, sublimation. Phase transition, ionization, solution and dilution.

Introduction of entropy as a state function, Gibbs energy change for spontaneous and non-spontaneous processes, criteria for equilibrium.

Second law of thermodynamics, third law of thermodynamics (Brief introduction).

## **Unit-VII Equilibrium**

Equilibrium in physical and chemical processes, dynamic nature of equilibrium, law of mass action, equilibrium constant, factors affecting equilibrium - Le Chatelier's principle; ionic equilibrium ionization of acids and bases, strong and weak electrolytes, degree of ionization, ionization of polybasic acids, acid strength, concept of pH, Henderson Equation. Hydrolysis of salts (elementary idea). Buffer solutions, solubility product, common ion effect (with illustrative examples).

## **Unit-VIII Redox Reactions**

Concept of oxidation and reduction, redox reactions, oxidation number, balancing redox reactions in terms of loss and gain of electrons and change in oxidation number, application of redox reaction.

## **Unit-IX Hydrogen**

Position of hydrogen in periodic table, occurrence, isotopes, preparation, properties and uses of hydrogen; hydrides - ionic, covalent and interstitial; physical and chemical properties of water, heavy water; hydrogen peroxide-preparation, reactions, structure and use; hydrogen as a fuel.

## **Unit-X        S Block Elements (Alkali and Alkaline earth metals)**

### **Group 1 and Group 2 elements**

General introduction, electronic configuration, occurrence, anomalous properties of the first element of each group, diagonal relationship, trends in the variation of properties (such as ionization enthalpy, atomic and ionic radii), trends in chemical reactivity with oxygen, water, hydrogen and halogens; uses.

#### **Preparation and properties of some important compounds :**

Sodium carbonate, sodium chloride sodium hydroxide and sodium hydrogen carbonate, biological importance of sodium and potassium.

CaO,  $\text{CaCO}_3$  and industrial use of lime and limestone, biological importance of Mg and Ca.

## **Unit-XI        Some p-Block Elements, General introduction to p-Block Elements**

**Group 13 elements:** General introduction, electronic configurations, occurrence. Variation of properties, oxidation states, trends in chemical reactivity, anomalous properties of first element of the group; Boron-physical and chemical properties, some important compounds: borax, boric acid, boron hydrides. Aluminium: reactions with acids and alkalies and uses.

**Group 14 elements :** General introduction, electronic configurations, occurrence, variation of properties, oxidation states, trends in chemical reactivity, anomalous behaviour of first element, Carbon - catenation, allotropic forms, physical and chemical properties; uses of some important compounds: oxides.

Important compounds of silicon and a few uses: silicon tetrachloride silicones, silicates and Zeolites, their uses.

## **Unit-XII        Organic Chemistry Some Basic Principles and Techniques**

General introduction, methods of purification, qualitative and quantitative analysis, classification and IUPAC nomenclature of organic compounds. Electronic displacements in a covalent bond:- inductive effect, electromeric effect, resonance and hyper conjugation.

Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carboanion; electrophiles and nucleophiles, types of organic reactions

## **Unit-XIII        Hydrocarbons**

### **Classification of hydrocarbons**

#### **Aliphatic Hydrocarbon**

**Alkanes** Nomenclature isomerism, conformations (ethane only), physical properties, chemical reactions including, free radical mechanism of halogenation, combustion and pyrolysis.

**Alkenes** - Nomenclature, structure of double bond (ethene) geometrical isomerism, physical properties, methods of preparation; chemical reactions: addition of hydrogen, halogen, water, hydrogen halides (Markovnikov's addition and peroxide effect), ozonolysis, oxidation, mechanism of electrophilic addition.

**Alkynes** - Nomenclature, structure of triple bond (ethyne), physical properties.

Methods of preparation, chemical reactions: acidic character of alkynes, addition reaction of - hydrogen, halogens, hydrogen halides and water.

**Aromatic hydrocarbons:** Introduction, IUPAC nomenclature: Benzene; resonance aromaticity: chemical properties: mechanism of electrophilic substitution. - nitration sulphonation, halogenation, Friedel Craft's alkylation and acylation: directive influence of functional group in mono-substituted benzene; carcinogenicity and toxicity.

#### **Unit-XIV Environmental Chemistry**

Environmental pollution - air, water and soil pollution, chemical reactions in atmosphere, smog, major atmospheric pollutants; acid rain, ozone and its reactions, effects of depletion of ozone layer; greenhouse effect and global warming - pollution due to industrial wastes: green chemistry as an alternative tool for reducing pollution, strategy for control of environmental pollution.

#### **STRUCTURE OF QUESTION PAPER (PRACTICAL)**

<b>Time: 3.00 hrs.</b>	<b>Marks: 20</b>
1. Volumetric Analysis	06
2. Salt Analysis	05
3. Content based experiment	05
4. Class record and Viva	<u>04</u>
Total Marks	20

#### **PRACTICAL SYLLABUS**

**Micro Chemical Methods are available for several of the practical experiments where ever possible such techniques should be used.**

##### **A. Basic Laboratory Techniques**

- Cutting glass tube and glass rod
- Bending a glass tube
- Drawing out a glass jet
- Boring a cork

##### **B. Experiments related to pH change**

- Anyone of the following experiments:
  - Determination of pH of some solutions obtained from fruit juices, solution of known and varied concentrations of acids, bases and salts using pH paper or universal indicator.

- Comparing the pH of solutions of strong and weak acid of same concentration.
- Study the pH change in the titration of a strong base using Universal indicator.

**b.** Study of pH change by common-ion effect in case of weak acids and weak bases.

### C. Qualitative Analysis

Determination of one anion and one cation in a given salt

**Cations-**  $\text{Pb}^{2+}$ ,  $\text{Cu}^{+2}$ ,  $\text{As}^{3+}$ ,  $\text{Al}^{3+}$ ,  $\text{Fe}^{3+}$ ,  $\text{Mn}^{2+}$ ,  $\text{Ni}^{2+}$ ,  $\text{Zn}^{2+}$ ,  $\text{Co}^{2+}$ ,  $\text{Ca}^{2+}$ ,  $\text{Sr}^{2+}$ ,  $\text{Ba}^{2+}$ ,  $\text{Mg}^{2+}$ ,  $\text{NH}_4^+$

**Anions-**

$\text{CO}_3^{2-}$ ,  $\text{S}^{2-}$ ,  $\text{SO}_3^{2-}$ ,  $\text{SO}_4^{2-}$ ,  $\text{NO}_2^-$ ,  $\text{NO}_3^-$ ,  $\text{Cl}^-$ ,  $\text{Br}^-$ ,  $\text{I}^-$ ,  $\text{PO}_4^{3-}$ ,  $\text{C}_2\text{O}_4^{2-}$ ,  $\text{CH}_3\text{COO}^-$

**(Note: insoluble salts excluded)**

### D. Detection of nitrogen, sulphur, chlorine in organic compounds.

#### PROJECTS

- Investigation of foaming capacity of different washing soaps and the effect of addition of Sodium carbonate on them.
- Study of the acidity of different samples of the tea leaves.
- Determination of the rate of evaporation of different liquids.
- Study of the effect of acids and bases on the tensile strength of fibers.
- Analysis of fruit and vegetable juices for their acidity.

**Note:** Any other investigatory project, which involves about 10 period of work can be chosen with the approval of the teacher.

### A. Characterization and purification of chemical substances

1. Determination of melting point of an organic compound
2. Determination of boiling point of an organic compound
3. Crystallization of impure sample of anyone of the following: Alum, copper sulphate, Benzoic acid.

### B. Chemical Equilibrium

One of the following experiments:

- a) Study the shift in equilibrium between ferric ions and thiocyanate ions by increasing/decreasing the concentration of either ions.
- b) Study the shift in equilibrium between  $[\text{Co}(\text{H}_2\text{O})_6]^{2+}$  and chloride ions by changing the concentration of either of the ions.

### C. Quantitative Estimation

- Using a chemical balance.
- Preparation of standard solution of oxalic acid.
- Determination of strength of a given solution of sodium hydroxide by titrating it against standard solution of oxalic acid.
- Preparation of standard solution of sodium carbonate.

- Determination of strength of a given solution of hydrochloric acid by titrating it against standard sodium carbonate solution.

### **PROJECT**

#### **Scientific Investigations involving A few suggested Projects**

- Checking the bacterial contamination in drinking water by testing sulphide ion. Study of the methods of p.
- Testing the hardness, presence of iron floride, chloride etc. depending upon the regional variation in drinking water and the study of causes of presence of these ions above permissible limit (if any).
- Study the method of purification of water.

**CLASS - XI**  
**36. BIOLOGY**

**Time: 3 Hrs**

**Theory: 70 Marks**  
**Practical: 20 Marks**  
**CCE: 10 Marks**  
**Total: 100 Marks**

**STRUCTURE OF QUESTION PAPER (THEORY)**

1. There will be one theory paper comprising of 26 questions in all.
2. Question no. 1 to 8 will be of one mark each. All are compulsory.
3. Question no. 9 to 16 will be of two marks each. All are compulsory.
4. Question no.17 to 23 will be of four (4) marks each. Question no.17 to 21 will be compulsory (1 question from each unit) There will be 100% Internal choice in question no 22 and 23. Question no. 22 will be from unit IV and Question 23 will be from unit V.
5. Question no.24 to 26 will be of six (6) marks each. There will be 100% internal choices.
6. Distribution of marks over different dimensions of the paper will be as follows.

LEARNING OUTCOMES	MARKS	PERCENTAGE OF MARKS
KNOWLEDGE	25	36%
UNDERSTANDING	31	44%
APPLICATION	14	20%
<b>Total</b>	<b>70</b>	<b>100%</b>

7. Out of eight one mark questions, 4 questions can be of the objective type such as Yes/No, tick/cross, fill in the blanks, multiple choice, true/false etc. Other four should be of statement type.

**UNITWISE DISTRIBUTION OF MARKS**

Unit	Title	Marks
I	Diversity in living World	07
II	Structural Organization in animals & plants	11
III	Cell structure and functions	16
IV	Plant physiology	18
V	Human anatomy and physiology	18
<b>Total Marks</b>		<b>70</b>

**SCHEMATIC DISTRIBUTION OF MARKS**

Unit	1 mark questions	2 mark questions	4 mark questions	6 mark questions	Total marks
<b>Unit-I</b>	1	1	1	-	<b>07</b>
<b>Unit-II</b>	1	3	1	-	<b>11</b>
<b>Unit-III</b>	2	2	1	1	<b>16</b>
<b>Unit-IV</b>	2	1	1+1or1	1	<b>18</b>
<b>Unit-V</b>	2	1	1+1or1	1	<b>18</b>
<b>Total questions</b>	<b>8</b>	<b>8</b>	<b>7</b>	<b>3</b>	<b>26</b>
<b>Total Marks</b>	<b>8</b>	<b>16</b>	<b>28</b>	<b>18</b>	<b>70</b>



## **INSTRUCTIONS FOR PAPER SETTER**

### **Note:**

1. There will be one theory paper consisting of total 26 questions.
2. Question no.1 to 8 will be of 1 mark each. All questions are compulsory.
3. Question no.9 to 16 will be of 2 marks each. All questions are compulsory.
4. Question no. 17 to 23 will be of 4 marks each. Questions 17 to 21 are compulsory (should be one from each unit) and 22 and 23 questions will have 100% internal choice and will be from IV and V unit.
5. Question no 24 to 26 will be of 6 mark each and will have 100% internal choice.
6. Questions in the paper can be asked only from mentioned PSEB syllabus. Questions from any topic which is not mentioned in the syllabus but the topic is included in the books published by Punjab School Education Board will be considered as a part of syllabus.
7. All 3 sets must be of equal standard and difficulty level questions.
8. At the end of each question, paper setter must write detailed distribution of marks of each sub-question.
9. Vague, many possible answer questions, confusing answer question etc type of question will not be asked in the paper. One mark questions, answer should be of one word or one line only.
10. Language used should be clearly understood & specific.
11. Time and length limit of paper should be kept in mind.

## **SYLLABUS (THEORY)**

### **Unit I      Diversity in Living World**

#### **Chapter 1   The Living World**

What is living?; Biodiversity; Need for classification; Three domain of life; Taxonomy & Systematic; Concept of species and taxonomical hierarchy; Binomial nomenclature; Tools for study of Taxonomy-Museums, Zoos, Herbaria, Botanical gardens.

#### **Chapter2 Biological Classification**

Five Kingdom classification; Salient features and classification of Monera; Protista and Fungi into major groups; Lichens; Viruses and Viroids.

#### **Chapter 3   Plant Kingdom**

Salient features and classification of plants into major groups-Algae, Bryophytes, Pteridophytes, Gymnosperm and Angiosperm (three to five salient and distinguishing features and at least two examples of each category); Angiosperms-classification up to class, characteristics features and examples.

## **Chapter 4    Animal Kingdom**

Salient features and classification of Animals-non chordate up to phyla level and chordate up to classes level (three to five salient features and at least two examples)

## **Unit II        Structural Organisation in Animals and Plants**

### **Chapter 5    Morphology of Flowering plants**

Morphology and modifications; morphology of different parts of flowering plants: Root, stem, leaf, inflorescence-cymose and racemose, flower, fruit and seed (To be dealt along with the relevant experiment of the practical syllabus).

### **Chapter 6    Anatomy of Flowering plants-**

Anatomy and functions of different tissues

### **Chapter 7    Structural Organisation in Animals**

Animal tissues; Morphology, anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of an insect (cockroach). (Brief account only)

## **Unit III       Cell Structure and Function**

### **Chapter 8    Cell-The unit of life**

Cell theory and cell as the basic unit of life; Structure of prokaryotic and eukaryotic cell; Plant cell and animal cell; Cell envelope, cell membrane, cell wall; Cell organelles-structure and function; Endomembrane system-endoplasmic reticulum, Golgi bodies, lysosomes, vacuoles; mitochondria, ribosomes, plastids, microbodies; Cytoskeleton, cilia, flagella, centrioles (ultra structure and function); Nucleus-nuclear membrane, chromatin, nucleolus.

### **Chapter 9    Biomolecules**

Chemical constituents of living cells: Biomolecules- structure and function of proteins, carbohydrates, lipid, nucleic acid; Enzymes-types, properties, enzyme action.

### **Chapter 10   Cell cycle and Cell Division**

Cell cycle, mitosis, meiosis and their significance.

## **Unit IV       Plant Physiology**

### **Chapter 11        Transport in plants**

Movement of water, gases and nutrients; Cell to cell transport- Diffusion, facilitated diffusion, active transport; Plant- water relations-Imbibition, water potential, osmosis, plasmolysis; Long distance transport of water- Absorption, apoplast, symplast, transpiration pull, rootpressure and guttation; Transpiration-Opening and Closing of stomata; Uptake and translocation of mineral nutrients- Transport of food; Phloem transport, Mass flow hypothesis;

## **Chapter 12 Mineral nutrition**

Essential minerals, macro and micronutrients and their role; Deficiency symptoms; Mineral toxicity; Elementary idea of Hydroponics as a method to study mineral nutrition; Nitrogen metabolism-Nitrogen cycle, biological nitrogen fixation.

## **Chapter 13        Photosynthesis**

Photosynthesis as a means of Autotrophic nutrition; site of photosynthesis; pigments involved in Photosynthesis (Elementary idea); Photochemical and biosynthetic phases of photosynthesis; Cyclic and non cyclic photophosphorylation; Chemiosmotic hypothesis; Photorespiration;  $C_3$  and  $C_4$  pathways; Factors affecting photosynthesis.

## **Chapter 14 Respiration in Plants**

Exchange of gases; Cellular respiration- glycolysis, fermentation (anaerobic), TCA cycle and electron transport system (aerobic); Energy relations- Number of ATP molecules generated; Amphibolic pathways; Respiratory quotient.

## **Chapter 15        Plant growth and development**

Plant growth and development: Seed germination; Phases of plant growth and plant growth rate; - Conditions of growth; Differentiation, dedifferentiation and redifferentiation, Sequence of developmental process in a plant cell; Growth regulators-auxin, gibberellin, cytokinin, ethylene, ABA; Seed dormancy; Vernalisation; Photoperiodism.

## **Unit V        Human Physiology**

### **Chapter 16        Digestion and Absorption**

Alimentary canal and Digestive glands; Role of digestive enzymes and gastrointestinal hormones; Peristalsis, Digestion, absorption and assimilation of proteins, carbohydrates and fats, Calorific value of proteins, carbohydrates and fats (for box item not to be evaluated); Egestion; Nutritional and digestive disorders - PEM, indigestion, constipation, vomiting, jaundice, diarrhoea.

### **Chapter 17 Breathing and Exchange of Gases**

Respiratory organs in animals (Recall only); Respiratory system in humans; Mechanism of Breathing and its regulation in humans - Exchange of gases, transport of gases and regulation of respiration, Respiratory volumes; Disorders related to respiration - Asthma, Emphysema, Occupational Respiratory disorders.

### **Chapter 18 Body fluids and Circulation**

Composition of blood, Blood groups, Coagulation of blood; Composition of Lymph and its function; Human circulatory system - Structure of human heart and blood vessels; Cardiac cycle, Cardiac output, ECG; Double

circulation; Regulation of cardiac activity; Disorders of circulatory system - Hypertension, Coronary artery disease, Angina pectoris, heart failure.

**Chapter 19 Excretory products and their elimination**

Modes of excretion - Ammonotelism, ureotelism; Uricotelism; Human excretory system - structure and function; Urine formation, Osmoregulation; Regulation of kidney-function - Renin-angiotensin, Atrial Natriuretic Factor, ADH and Diabetes insipidus; Role of other organs in excretion; Disorders - Uraemia, Renal failure, Renal calculi, Nephritis; Dialysis and artificial kidney.

**Chapter 20 Locomotion and Movement**

Types of movement - ciliary, flagellar, muscular; Skeletal muscle - contractile proteins and muscle contraction; Skeletal system and its functions. (To be dealt with the relevant practical of Practical Syllabus); Joints; Disorders of muscular and skeletal system – Myasthenia gravis, Tetany, Muscular dystrophy, Arthritis, Osteoporosis, Gout.

**Chapter 21 Neural control and coordination**

Neuron and nerves; Nervous system in humans - central nervous system, Peripheral nervous system and visceral nervous system; Generation and conduction of nerve impulse; Reflex action; Sense organs; Sensory Perception; Elementary structure and function of eye and ear.

**Chapter 22 Chemical coordination and Integration**

Endocrine glands and hormones; Human endocrine system - Hypothalamus, Pituitary, Pineal, Thyroid, Parathyroid, Adrenal, Pancreas, Gonads; Mechanism of hormone action (Elementary idea); Role of hormones as messengers and regulators, Hypo- and hyperactivity and related disorders. (Common disorders eg. Dwarfism, Acromegaly, Cretinism, goitre, exophthalmic goitre, diabetes, Addison's disease).

Imp: Diseases related to all the human physiology systems to be taught in brief.

**STRUCTURE OF QUESTION PAPER (PRACTICAL)**

**Time: 3.00 hrs.**

**Total 20 : Marks**

1.	Experiment and Spotting	12
2.	Record of one investigatory and Viva based on the project	4
3.	Class record and Viva based on experiments	4
Total		20

## **SYLLABUS (PRACTICALS)**

### **A. List of Experiments**

1. Study and describe three locally available common flowering plants from each of the following families (Solanaceae, Fabaceae and Liliaceae) including dissection and display of floral whorls and anther and ovary to show number of chambers. Types of root (Tap and Adventitious); Stem (Herbaceous and woody); Leaf (arrangement, shape, venation, simple and compound).
2. Preparation and study of T.S. of dicot and monocot roots and stems (primary).
3. Study parts of a compound microscope.
4. Study of the specimens and identification with reasons- Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, Yeast, liverwort, moss, fern, Pine, one monocotyledonous plant and one dicotyledonous plant and one lichen.
5. Study of specimens and identification with reasons- Amoeba, Hydra, Liverfluke, Ascaris, leech, earthworm prawn, silkworm, honeybee, snail, starfish, shark, Rohu, frog, lizard, pigeon and rabbit.
6. Study of tissues, and diversity in shapes and sizes of plant and animal cells (e.g palisade cells, guard cells, parenchyma, collenyma, sclerenchyma, Xylem, Phloem, Squamous epithelium, muscle fibers and mammalian blood smear) through temporary/permanent slides.
7. Study of different modifications in root, stem and leaves.
8. Study and identification of different types of inflorescence.
9. Study of osmosis by potato osmometer.
10. Study of plasmolysis in epidermal peels (e.g. Rhoeo leaves).
11. Study of distribution of stomata in the upper and lower surface of leaves.
12. Comparative study of the rates of transpiration in the upper and lower surface of leaves.
13. Test for the presence of sugar, starch, protein and fats. To detect them in suitable plant and animal materials.
14. Separation of plant pigments through paper chromatography.
15. To study the rate of respiration in flower buds/leaf tissue and germinating seeds.
16. To test the presence of urea in urine.
17. To detect the presence of sugar in urine/blood sample
18. To detect the presence of albumin in urine.
19. To detect the presence of bile salts in urine.
20. Study of imbibition in seeds/raisins.
21. Observation and comments on the experimental set up for showing.

- a. Anaerobic respiration
  - b. Phototropism
  - c. Apical bud removal
  - d. Suction due to transpiration
- 22. Study of human skeleton and different types of joints.
  - 23. Study of external morphology of earthworm, cockroach and frog through models.
  - 24. Study of mitosis in onion root tip cells and animals cells (grasshopper) from permanent slides.

**Note:- The subtopics which are printed in the books published by Punjab School Education Board but are not mentioned in syllabus, should be considered as part of syllabus.**

**CLASS-XI**  
**37. Computer Application**  
**Instructions (Theory Paper)**

**Time: 3 hours**

**Theory : 60 Marks**  
**CCE : 10 Marks**  
**Practical : 30 Marks**

**Structure of Question Paper**

1. There will be four sections of Question Paper (Part- A, Part- B, Part- C and Part- D).
2. In Part- A , there will be 6 objective type question from Question No. 1 to 6 , each question will be of one marks each.
3. In Part -B, there will be 6 Questions from Question no. 7 to 12, each questions will be of two marks.
4. In Part -C , there will be 6 Questions from Question no. 13 to 18, each questions will be of four marks.
5. In Part –D, there will be three questions from Question no. 19 to 21 , each question will be of 6 marks.
6. All questions of Part-A, Part-B, Part-C and Part-D are compulsory. However internal choice may be given in part-D.

<b>Sr. No</b>	<b>Chapter</b>	<b>Total Marks</b>	<b>Marks 1 question</b>	<b>Marks 2 question</b>	<b>Marks 4 question</b>	<b>Marks 6 question</b>
1.	Introduction to C	10			1	1
2.	Constant Variable and data types	7	1	1	1	
3.	Operators and Expressions	7	1	1	1	
4.	Control and Expressions	8		1		1
5.	Arrays	7	1	1	1	
6.	String Handling Functions	7	1	1	1	
7.	User defined functions	7	1	1	1	
8.	Internet & E-Governance	7	1			1
	<b>Total Marks</b>	<b>60</b>	<b>6</b>	<b>12</b>	<b>24</b>	<b>18</b>

Lesson 1: Introduction to C

- 1.1 Introduction
- 1.2 Distinctive Features of C Language
- 1.3 Character set of C Language
- 1.4 Structure of C Program
- 1.5 Function
- 1.6 Compilation and execution of C program
- 1.7 Starting with Programming

Lesson 2: Constants, Variables and Data Types

- 2.1 Introduction
- 2.2 Identifiers
- 2.3 Keywords

	2.4	Constants
	2.5	Variables
	2.6	Delimiters
	2.7	Data types:
	2.8	Type modifier or Qualifiers
	2.9	The void Data type or empty data type:
Lesson3:		Operators and Expressions
	3.1	Introduction
	3.2	Operators
Lesson 4		Control and Expressions
	4.1	Introduction
	4.2	Conditional control structures (Decision Making Statement)
	4.3	Multi way conditional (case) control structures
	4.4	Jumping (branching) Control structures:
	4.5	Loop (Iterative) control structures
Lesson 5		Arrays
	5.1	Introduction
	5.2	Declaration of an array:
	5.3	Initializing arrays:
	5.4	Accessing array Elements
	5.5	Entering Data into an Array:
	5.6	Manipulation of array elements:
	5.7	Types of arrays:
Lesson 6:		String Handling Functions
	6.1	Introduction
	6.2	Declaration and Initializing String Variables
	6.3	READING and WRITING STRINGS
	6.4	Reading strings using scanf() function
	6.5	Arithmetic operations on characters
	6.6	STRING Functions
Lesson 7:		User defined Function
	7.1	Introduction
	7.2	What is a function
	7.3	Need of functions
	7.4	Defining Function
	7.5	Structure/form of a function
	7.6	Arguments and Parameters
	7.7	Using a Function in Program
Lesson 8:		Internet & E-Governance
	8.1	Introduction
	8.2	Applications of Internet
	8.3	History of Internet
	8.4	Facilities of Internet
	8.5	Search Engine
	8.6	Internet Explorer
	8.7	E-Mail
	8.8	Computer Virus
	8.9	Online Railways and Air Ticketing



## **PRACTICAL**

**Time: 3 hrs**

**Marks: 30**

### **EVALUATION SCHEME FOR PRACTICAL**

**1. Programming in C**

There will be 4 questions / Program will be set from which candidate has to attempt any Three program/ Questions. Each Program or Question will be of 5 marks. Marks for the programming are to be given on the basis of program documentation / indentation, algorithm and result (output)  $5 \times 3=15$  Marks

**2. Viva-Voce**

10 Marks

**3. Practical record file:**

5Marks

Record of at least 20 programs in C (with listing and Outputs) based on programming concepts and on data base concepts

**SYLLABUS:** All the relevant practical exercise will be based upon the relevant chapters mentioned in the Theory Syllabus.

**CLASS - XI****38. BUSINESS STUDIES-I  
(COMMERCE GROUP)****Time : 3 Hrs****Theory: 65 Marks****CCE: 10 Marks****Total: 75 Marks****STRUCTURE OF QUESTION PAPER**

1. The question paper will cover whole of the syllabus.
2. 20 Questions will be set in the question paper.
3. All units of the syllabus should be given adequate representation in the question paper.

**SECTION -A**

4. Question No. 1 consist of 5 sub part of 1 mark each. Answer of each part should be given in 1-15 words. Objective type questions may include questions with one word or one sentence answer / fill in the blanks / multiple choice type questions/true or false.

**SECTION -B**

5. Question No 2 to 8 will carry 2 marks each. Answer of each question should be given in 5-10 lines.

**SECTION -C**

6. Do any seven questions from this section. Question No 9 to 17 will carry 4 marks each. Answer of each question should be given in 15-20 lines.

**SECTION -D**

7. Questin No. 18 to 20 will carry 6 marks each with internal choice. Answer of each question should be given in 3-5 pages. Internal choice questions should not be set from the same unit.

**DETAIL OF QUESTIONS SET FROM EACH UNIT**

		<b>Section-A</b>	<b>Section-B</b>	<b>Section-C</b>	<b>Section-D</b>
<b>Unit No.</b>	<b>Name of the unit</b>	<b>1 mark question</b>	<b>2marks question</b>	<b>4 marks questions</b>	<b>6 marks question</b>
1	Nature and Purpose of Business	1Q. from unit1 & 2		1	(i)1Q from unit 1&2 with 1Qfrom 3& 4 as internal choice
2	Structure of Business		1	1	(ii) 1Q from 7 & 8 with 1Q from 9 & 10 Q. as internal choice.
3	Service Sector and Business			1	(iii) 1Q from unit 5 with 1Q from unit 6 as internal choice.
4	Social Responsibility of Business and Business Ethics	1		1	
5	Forms and Formation of Business Enterprises		1	1	
6	Sectoral Organisation of Business	1	1		
7	Formation of a Company	1	1	1	
8	Internal Trade		1	1	
9	Sources of Business Finance	1	1	1	
10	External Trade		1	1	
	<b>Total</b>	<b>05</b>	<b>07</b>	<b>09</b>	<b>03</b>

**SYLLABUS**  
**FOUNDATION OF BUSINESS**

**UNIT-1 NATURE AND PURPOSE OF BUSINESS**

- (a) Concept and Characteristics of Business.
- (b) Business Profession and Employment-Distinctive Features.
- (c) Objectives of Business-Economic, Social and Human.
- (d) Business Risks-Nature and Causes.
- (e) Role of Profit in Business.
- (f) A brief outline of the Evolution of Business Activities in India.

**UNIT-2 STRUCTURE OF BUSINESS**

- (a) Classification of Business Activities, Industry and Commerce.
- (b) Industry and Types: Primary and Secondary.
- (c) E-commerce-Meaning, Opportunities and Benefits, Resources required for successful E-Commerce Implementation, Security and Safety for Business Transactions.
- (d) Outsourcing of Services: Nature, Need and Types, Financial Services, Advertising, Courier Services, Customer Support Services.

**UNIT-3 SERVICE SECTOR AND BUSINESS**

- (a) Banking; Types of Banks and Functions of Commercial Banks.
- (b) Insurance; Principles, Types: Life and General, Fire and Marine and Insurance of other Risks, Health Insurance, Fidelity Insurance.
- (c) Communication: Postal & Telecommunication.
- (d) Warehousing: Types and Functions.

**UNIT-4 SOCIAL RESPONSIBILITY OF BUSINESS AND BUSINESS ETHICS**

- (a) Concept of Social Responsibility.
- (b) Case for Social Responsibility and Human Rights.
- (c) Responsibility towards Consumers, Government and Community in General.
- (d) Business and Environment Protection.
- (e) Business Ethics: Concepts and Elements.

**UNIT-5 FORMS AND FORMATION OF BUSINESS ENTERPRISES**

- (a) Meaning, Features, Merits and Limitations of following Forms:-
  - i. Sole Proprietorship.
  - ii. Joint Hindu Family Business.
  - iii. Partnership-Partnership Deed (main clauses), Types of Partners and Partnership Formation, Registration.
  - iv. Co-operative Societies.
  - v. Company; Types of Companies- Private, Public and Deemed Public Company, Privileges of Private Company.
- (b) Choice of Form of Business Enterprise.
- (c) Factors to be considered for starting a Business.
- (d) Scope for setting up Small Business Enterprises.

**UNIT-6 SECTORAL ORGANISATION OF BUSINESS**

- (a) Meaning, Features, Merits and Limitations of following:
  - Private Sector, Public Sector and Joint Sector.
- (b) Forms of Public Sector Enterprises:

- i. Departmental Undertaking.
- ii. Co-operative Organisation.
- iii. Government Company.
- (c) Global Enterprise (Multi National Companies).

### **CORPORATE ORGANISATION, FINANCE AND TRADE**

#### **UNIT-7 FORMATION OF A COMPANY**

- a) Stages in the Formation of the Company.
  - i. Promotion
  - ii. Incorporation
  - iii. Commencement of Business

#### **UNIT-8 INTERNAL TRADE**

- a) Meaning and Types.
- b) Wholesale Trade-Functions and Services.
- c) Retail Trade Organisation: Meaning, Types, Features, Merits and Demerits.
  - i. Itinerant and Fixed Shop.
  - ii. Departmental Stores, Chain Shop, Mail Order Business, Franchise.
  - iii. Consumers Co-operative Store (including super bazar).
- c) Direct Marketing, Tele-Marketing, Internal Marketing.

#### **UNIT-9 SOURCES OF BUSINESS FINANCE**

- a) Nature and Significance
- b) Sources and Finance
  - i) Equity and Preference Shares
  - ii) Debentures/Bonds-Types;                      Secured,                      Unsecured, Convertible, Non-Convertible.
  - iii) Retained Profits.
  - iv) Public Deposits.
  - v) Loan from Financial Institutions.
- c) International Sources: GDR's, FDI.

#### **UNIT-10 EXTERNAL TRADE**

- a) Nature and Importance.
- b) Meaning of Export Promotion.
- c) Incentives Available.
- d) Export-Import Procedure and Documentation.
- e) Nature and Importance of Export Processing Zones and Special Economic Zones (SEZ).

**CLASS - XI**  
**39. ACCOUNTANCY-I**  
**(COMMERCE GROUP)**

**Time: 3 Hrs**

**Theory: 50 Marks**  
**Project work/ Practical: 15 Marks**  
**CCE: 10 Marks**  
**Total: 75 Marks**

**STRUCTURE OF QUESTION PAPER (THEORY)**

1. The question paper will cover whole of the syllabus.
2. There are 4 sections in the question paper i.e. A, B, C and D.
3. 16 Questions will be set in the question paper. Out of which students will have to attempt 14 questions.
4. All units of the syllabus should be given adequate representation in the question paper.
5. There is no word, line or Page limit for numerical questions.
6. The use of non-programmable simple calculator is allowed.

**SECTION-A**

7. Question No. 1 consists of 6 subparts carrying 1 mark each. Answer of each part should be given in 1-15 words. Objective type questions may include questions with one word or one sentence answer/fill in the blanks/true or false/multiple choice type questions.

**SECTION-B**

8. Question No. 2 to 7 (of which 3 questions will be numerical and 3 question will be theoretical) will carry 2 marks each. Answer of theoretical questions should be given in 5 to 10 lines.

**SECTION-C**

9. Question No. 8 to 14 will carry 4 marks each. Question No. 8 to 11 (of which 2 questions will be numerical and 2 questions will be theoretical) will be set from unit 2, 3, 4 and 5 and students will attempt any 3 questions out of these 4 questions.

Question No. 12 to 14 (of which 2 questions will be numerical and 1 question will be theoretical) will be set from unit 6, 7 and 8 and students will attempt 2 question out of these 3 questions. Answer of theoretical questions should be given in 15-20 lines.

**SECTION-D**

10. Question No. 15 and 16 will carry 6 marks each with internal choice. Out of these questions, 1 question will be numerical with numerical question as internal choice and 1 question will be theoretical with numerical question as internal choice. Answer of theoretical questions should be given in 3-4 pages of the answer book.

### DETAIL OF QUESTIONS SET FROM EACH UNIT

Unit No.	Name of the unit	1 Mark Question	2 Marks Question	4 Marks Question	6 Marks Question
11.	Introduction to Accounting	1	1	1	1
12.	Theory Base of Accounting				
13.	Recording of Business transactions				
14.	Trial Balance and Rectification of errors	1	1	1	1
15.	Depreciation, Provisions and Reserves		1	1	
16.	Bank Reconciliation Statement	1	1	1	1
17.	Accounting for bill of exchange transaction				
18.	Financial Statements	1	1	1	1
19.	Computer in Accounting	1		1	
20.	Accounting and Data Base System				

### Project work

**Time Allowed: 1½ Hours**

**Max**

**Marks: 15**

1. The syllabus of project work is same as prescribed for the theory paper.
2. Project Note book will consist of at least one comprehensive project and some short answer questions based on the prescribed syllabus.
3. Division of Marks:

Project Note Book

**3 marks**

Total five questions of 3 marks each will be set. The students are required to attempt any three.

**(3x3)9 marks**

Viva Voce

**3 marks**

### SYLLABUS

#### **Unit –1 Introduction to Accounting**

- i) Accounting-Meaning, Objectives, Accounting as Source of Information, Internal and External Users of Accounting Information and their Needs, Advantages and Limitations of Accounting, Difference between Book-Keeping and Accountancy.
- ii) Qualitative Characteristics of Accounting Information-Reliability, Relevance, Understandability and Comparability.
- iii) Basic Accounting Terms-Asset, Liability, Capital, Expense, Income, Expenditure, Revenue, Debtors, Creditors, Goods, Cost, Gain, Stock, Purchase, Sales, Loss, Profit, Voucher, Discount: Cash and Trade Discount, Transaction, Drawings, Equity.

## **Unit-2 Theory Base of Accounting**

- i) Accounting Concepts: Entity Money Measurement, Going Concern, Accounting Period, Cost Concept, Dual Aspect, Revenue Recognition (realisation), Matching, Accrual.
- ii) Accounting Conventions-Full Disclosure, Consistency, Conservatism, Materiality, Objectives.
- iii) Accounting Standards-Meaning, Nature, Need and List of Indian Accounting Standards.
- iv) Accounting Mechanism-Single Entry and Double Entry.
- v) Accounting Cycle-From Recording of Business Transaction to Preparation of Trial Balance and Final Accounts.
- vi) Bases of Accounting-Cash Basis, Accrual Basis.

## **Unit-3 Recording of Business Transactions**

- i) Voucher and Transactions: Origin of Transactions-Source Documents and Vouchers, Preparation of Voucher; Accounting Equation Approach-Meaning and Analysis of Transaction using Accounting Equation; Rules of Debit and Credit.
- ii) Recording of Transactions: Books of Original Entry-Journal, Special Purpose Books:
  - (a) Cash Book-Simple, Cash book with Bank column and Petty Cash Book,
  - (b) Purchase Book, Sales Book, Purchase Returns Book, Sales Return Book, Bill Receivable Book. Bills Payable Book;
  - (c) Ledger - Meaning, Utility, Format; Posting from Journal and Subsidiary Books; Balancing of Accounts.

## **Unit-4 Trial Balance and Rectification of Errors**

- i) Trial-Balance; Meaning, Objectives, Advantages and Methods of Preparation.
- ii) Errors: Types of Errors; Errors affecting Trial Balance; Errors not affecting Trial Balance.
- iii) Detection and Rectification of Errors (one sided and two sided) Use of Suspense Account.

## **Unit-5 Depreciation, Provisions and Reserves**

- i) Depreciation: Meaning and Need of Charging Depreciation, Factors Affecting Depreciation, Methods of Depreciation-Straight Line Method, Written Down Value Method (excluding change in method), Method of Recording Depreciation Charging to Asset Account, Creating Provision for Depreciation /Accumulated Depreciation Account; Treatment of Disposal of Asset.

- ii) Provision and Reserves: Meaning, Importance, Difference between Provisions and Reserves, Type of Reserve; Revenue Reserve, Capital Reserve, General Reserve, Specific Reserve and Secret Reserves.

#### **Unit-6 Bank Reconciliation Statement**

- i) Meaning, Need and Preparation, Correct Cash Balance.

#### **Unit-7 Accounting for Bills of Exchange Transaction**

- i) Bills of Exchange and Promissory Note: Definition, Feature, Parties, Specimen and Distinction.
- ii) Important Terms: Term of Bill, Concept of Accommodation Bill, Days of Grace, Date of Maturity, Bill at Sight, Bill after Date, Negotiation, Endorsement, Discounting of Bill.  
Dishonor, Retirement and Renewal of a Bill, Insolvency of Acceptor.
- iii) Accounting Treatment of Bill Transaction.

#### **Unit-8 Financial Statements**

- i) Financial Statements: Meaning and Objectives.
- ii) Distinction between Capital Expenditure and Revenue Expenditure.
- iii) Balance Sheet: Need, Grouping, Marshaling of Assets and Liabilities, Vertical Presentation of Financial Statement.
- iv) Adjustments in Preparation of Financial Statements with respect to Closing Stock, Outstanding Expenses, Prepaid Expenses, Accrued Income, Income received in Advance, Depreciation, Bad Debts, Provision for Doubtful Debts, Provision for Discount on Debtors, Managers Commission,
- v) Preparation of Trading and Profit & Loss Account and Balance Sheet of Sole Proprietorship.

#### **Unit-9 Computer in Accounting**

- i) Introduction to Computer and Accounting Information System (AIS)
- ii) Applications of Computers in Accounting:- Automation of Accounting Process, Designing Accounting Reports, MIS reporting Data Exchange with other Information Systems.
- iii) Comparison of Accounting Processes in Manual and Computerized Accounting, Highlighting Advantages and Limitation of Automation.
- iv) Sourcing of Accounting System: Readymade and Customized and Tailor made Accounting Systems. Advantages and Disadvantages of each option.

#### **Unit-10 Accounting and Database System**

- i) Accounting and Database Management System.
- ii) Concept of Entity and Relationship: Entities and Relationships in an Accounting System: Designing and creating Simple Tables, Forms, Queries and Reports in the context of Accounting System.



**CLASS - XI**  
**40. BUSINESS ECONOMICS & QUANTITATIVE METHODS-I**  
**(COMMERCE GROUP)**

**Time: 3 Hrs**

**Theory:65 Marks**

**CCE: 10 Marks**

**Total: 75 Marks**

**STRUCTURE OF QUESTION PAPER**

1. The question paper will cover whole of the syllabus.
2. 20 Questions will be set in the question paper. Student will have to attempt 18 questions.
3. All units of the syllabus should be given adequate representation in the question paper.

**SECTION-A**

4. Question No. 1 consists of 5 subparts carrying 1 mark each. Answer of each part should be given in 1-15 words. Objective type questions may include questions with one word or one sentence answer/fill in the blanks/true or false/multiple choice type questions.

**SECTION -B**

5. Question No. 2 to 8 will carry 2 marks each. Answer of each question should be given in 5-10 lines.

**SECTION -C**

6. Question No. 9 to 17 will carry 4 marks each. Out of 9 questions 4 questions will be numerical and 5 questions will be theoretical. Do any 7 questions out of 9 questions. Answer of each question should be given in 15-20 lines.

**Section -D**

7. Question No. 18 to 20 will carry 6 marks each with internal choice. Answer of each question should be given in 3-5 pages. Internal choice question should not be set from the same unit.
8. There is no word, line or page limit for numerical questions.
9. The use of non- programmable simple calculator is allowed.

**DETAIL OF QUESTIONS SET FROM EACH UNIT**

		<b>Section-A</b>	<b>Section-B</b>	<b>Section-C</b>	<b>Section-D</b>
<b>Syllabus</b>	<b>Units</b>	<b>1Mark Questions</b>	<b>2 Mark Question</b>	<b>4Mark Question</b>	<b>6 Marks questions</b>
PART - I Business Statistics	1	1Q. from unit 1&2	1	1	(i)1Q. from unit 1& 2 with 1 Q. from unit 3 & 4 as internal choice.
	2		1	1	
	3	1Q. from unit 3&4	1	1	
	4			1	
PART – II Introductory Micro Economics	5	1Q. from unit 5 & 6	1	1	(ii) 1Q. from unit 5 & 6 with 1Q. from unit 7 & 8 as internal choice. (iii)1 Theory Q. with numerical Q. as internal choice from any part.
	6		1	1	
	7	1	1	2	
	8	1	1	1	
Total questions	8	5	7	9	3

**SYLLABUS**  
**PART-I**  
**BUSINESS STATISTICS**

**Unit-1 Introduction to Statistics.**

Statistics: Meaning, Definition; Its Need and Importance in Business, Functions and Distrust of Statistics.

**Unit-2 Collection of Data.**

Meaning of Data, Sources of Data, Primary and Secondary Data, Methods of Collecting Primary and Secondary Data, Construction of Questionnaire.

**Unit-3 Theory of Sampling**

Census and Sampling Methods, Principles of Sampling, Qualities of Good Sampling, Methods or Techniques of Sampling.

**Unit-4 Presentation to Data.**

Classification of Data, Tables, Bar diagrams, Histograms and Ogives.

**PART-II**  
**INTRODUCTORY MICROECONOMICS**

**Unit-5 Introduction to Managerial Economics**

Introduction, Definition, Characteristics of Managerial Economics, Difference between Managerial Economics and Economics; Its Scope, Uses and Role & Responsibility of Managerial Economics.

**Unit-6 Consumer Behaviour and Demand**

- i.** Consumer's Equilibrium-Meaning and Attainment of Equilibrium through Utility Approach; one and two commodity cases.
- ii.** Demand, Market Demand, Determinants of Demand, Demand Schedule, Demand Curve, Movement along and Shifts in Demand Curve, Law of Demand, Price Elasticity of Demand, Measurement of Price Elasticity of Demand-Percentage, Total Expenditure and Geometric Method.

**Unit-7 Producer Behaviour and Supply**

- (i) Production Function: Returns to a Factor and Returns to Scale.
- (ii) Supply, Market Supply, Determiners of Supply, Supply Schedule, Supply Curve, Law of Supply, Movement along and Shifts to Supply Curve, Price Elasticity of Supply, Measurement of Price Elasticity of Supply-Percentage and Geometric Method.
- (iii) Cost and Revenue: Concept of Costs, Short Run Cost Curves (fixed and variable costs; total average and marginal cost); Concepts or Revenue, Total, Average and Marginal Revenue and their Relationship.
- (iv) Producer's Equilibrium-with the help of MC and MR.

## **Unit-8 Forms of Market and Price Determination**

Forms of Market-Perfect Competition, Monopoly, Monopolistic Competition-Their

Meaning and Features, Price Determination under Perfect Competition-Equilibrium Price, Effects of Shifts in Demand and Supply.

**CLASS - XI**  
**41. MODERN OFFICE PRACTICE**  
**(COMMERCE GROUP)**

**Time: 3 Hrs**

**Theory: 50 Marks**  
**CCE: 10 Marks**  
**Practical: 15 Marks**  
**Total: 75 Marks**

**STRUCTURE OF QUESTION PAPER**

1. The Question Paper will cover whole of the Syllabus.
2. 16 Questions will be set in the Question paper. Do any five questions from Section-C.
3. All units should be given adequate representation in the question paper.
4. The Question paper will have 4 sections i.e. A, B, C & D.

**SECTION-A**

5. Question No. 1 consists of 6 subparts carrying 1 mark each. Answer of each part should be given in 1-15 words. Objective type questions may include questions with one word or one sentence answer/fill in the blanks/true or false/multiple choice type questions. Three Questions will be set from Part-1 and another three questions will be set from Part-2 of the syllabus.

**SECTION-B**

6. Question No. 2 to 7 will carry 2 marks each. Three questions will be set from Part-1 and remaining three questions will be set from Part-2 of the syllabus. Answer of these questions should be given in 5 to 10 lines.

**SECTION-C**

7. Question No. 8 to 14 will carry 4 marks each. Attempt total five questions from this section. Attempt any two questions from **(Q.No. 8 to Q.No. 10)** which will be set from Part -I and attempt any three questions from **(Q.No. 11 to Q.No. 14)** which will be set from Part-II. Answer of these questions should be given in 15 to 20 lines.

**SECTION-D**

8. Question No. 15 to 16 will carry 6 marks each with internal choice. Q.No.15 will be set from Units I to II with internal choice and Q.No. 16 will be set from Units III to IV with internal choice. Each question will carry six marks each. Answer of these questions should be given in 3-4 pages of the answer book.

## UNIT WISE DIVISION OF THE MARKS

Part	Unit No.	Name of the Unit	1 Marks Questions	2 Marks questions	4 Marks Questions	6 Marks Questions	Total no. of questions set from Unit wise	Weightage of Questions Unit wise (in %)
<b>Part-I</b>	<b>I</b>	Introduction of Office and Office Management	1	1	1	1 (with internal choice)	3.5	16.66 %
	<b>II</b>	Office Machines	2	2	2		6.5	30.95 %
<b>Part-II</b>	<b>III</b>	Office Communication	1	2	2	1 (with internal choice)	5.5	26.19 %
	<b>IV</b>	Office Record Management	2	1	2		5.5	26.19 %
	<b>Total Questions</b>		<b>6</b>	<b>6</b>	<b>7</b>	<b>2</b>	<b>21</b>	<b>100%</b>

### Note:

1. Do any five questions out of seven questions of 4 marks from **Section-C.**

## SYLLABUS

### Rationale

The main objective of the course in modern office practice is to make the students understand the concepts and principles of office methods and procedures and develop skills in performing office operations. This subject aims at making the students well conversant with the services provided by a modern office and enables them to perform the same using modern methods and equipments.

### PART-1

#### **Unit-1 Introduction of Office**

Meaning and Evolution of Modern Office, Functions of Office, Place of an Office in a Modern Business Organisation, Concept of Office Management, Department of a Large Office, Role and Qualities of a Modern Office Manager.

#### **Unit-2 Office Machines**

Meaning and Relevance of Office Automation, Types of Machines used in Office with Special Emphasis on use of Computers in Office, Hardware and Software (MS-Office-MS Word, MS Excel, MS Power Point and MS Outlook), Types and use of Printers, Scanners, Copiers and other Appliances.

### PART-2

#### **Unit-3 Office Communications**

Meaning and importance of Effective Communication, Principles of Communication, Channels of Communication, Role of Manager in Effective

Communication, Types of Phone Calls, Video Conferencing, Effective Letter Writing, E-mail Writing and Report Writing.

#### **Unit-4      Office Record Management**

Meaning and Features of Record Management, Filing: Characteristics of a good filing system; Classification of Records for Filing (Alphabetical, Numerical etc.), Modern Methods-Vertical, Horizontal, lateral and suspensions; Equipment; Types of Files; Filing routine, Disposal of Obsolete Documents; Indexing: Importance; Types-Page Index Card Index; Strip Index; Rotary Index, Micro Filing: Merits and Demerits; Types-Roll Film, Fiche, Jackets etc. Meaning of Electronic Filing, Data Storage Management.

#### **SYLLABUS**

#### **PRACTICAL**

Communication skills (Resume Writing and Application for jobs).

Students will be imparted a practical knowledge regarding basics of computers. Operation of Scanners, Printers Photocopiers, Fax Machines and Other Office Appliances. Mail Merge.

**CLASS - XI**  
**42. AGRICULTURE**

**Time: 3 hrs**

**Theory: 70 Marks**  
**Practical: 20 Marks**  
**CCE: 10 Marks**  
**Total: 100 Marks**

**STRUCTURE OF QUESTION PAPER (THEORY)**

**The question paper is divided into four parts. There will be a total of 28 questions. The distribution of marks are as follows:**

- Part - I** Question nos. **1** to **10** will be **1-1 mark** each. These questions will be in the form of **very short answers / multiple choice answers / fill in the blanks / choose right or wrong statements**. All these questions will be compulsory.
- Part - II** Question nos. **11** to **20** will be **2-2 marks** each. The answer to each question should be described in **20-30 words**. All these questions will be compulsory.
- Part - III** Question nos. **21** to **24** will be **4-4 marks** each. The answer to each question should be described in **80-100 words**. All these questions will be compulsory.
- Part - IV** Question nos. **25** to **28** will be **6-6 marks** each. The answer to each question should be described in **120-150 words**. There will be 100% internal choice. **The internal choice question will be from that unit.**

**UNIT WISE DISTRIBUTION OF MARKS**

<b>Unit No.</b>	<b>1 Mark Questions</b>	<b>2 Marks Questions</b>	<b>4 Marks Questions</b>	<b>6 Marks Questions</b>	<b>Total</b>
<b>Unit - 1</b>	3	3	1	1	<b>19 Marks</b>
<b>Unit - 2</b>	3	3	1	1	<b>19 Marks</b>
<b>Unit - 3</b>	2	2	1	1	<b>16 Marks</b>
<b>Unit - 4</b>	2	2	1	1	<b>16 Marks</b>
<b>Total Marks</b>	<b>10</b>	<b>20</b>	<b>16</b>	<b>24</b>	<b>70</b>
<b>Total Questions</b>	<b>10</b>	<b>10</b>	<b>4</b>	<b>4</b>	<b>28</b>

**SYLLABUS (THEORY)**

**Unit - 1**

**SOIL AND SOIL MANAGEMENT**

**19 Marks**

1. Elementary knowledge of rock and minerals, weathering of rocks, soil formation, soil profile, alkaline and acidic soils.

2. Elementary knowledge of soil texture and structure, properties of soil separates (sand, silt and clay), textural classification of soils, Structural classification of soil, soil tillage.
3. Elementary knowledge of water, importance of water in plant growth, various methods of irrigation and water lifts, used in Punjab.
4. Elementary knowledge of soil fertility- Factors affecting soil fertility. Methods of maintaining soil fertility. Organic manures (compost, F.Y.M., oil cakes and green manures) and inorganic fertilizers (nitrogenous, phosphatic and potassic and mixed fertilizers). Introduction to micronutrients.
5. Elementary knowledge of water logging-causes and remedies.
6. Elementary knowledge of tillage, implements used.

## **UNIT - 2**

### **FARM CROP AND FARM MANAGEMENT (Elementary knowledge)      19 Marks**

1. Classification of crops, rotation of crops, crop mixture.
2. Study of the following crops with respect to their climatic and soil requirements, area, preparation of seedbed, time of sowing, seed rate, manurial requirement, spacing, interculture, irrigation, important pest diseases, harvesting, threshing, yield etc.
  - (a) Wheat, barley, gram, toria, barseem, potato, peas, radish, carrot, turnip and onion.
  - (b) Cotton, maize, sugarcane, rice, groundnut, bajra, sorghum, brinjal, okra, cauliflower, gourd, melons, tomato, sunflower.
3. Fruit tree-Importance of fruits and irrigational requirements for growing, layout of orchards: Cultivation of mango, guava, grapes, citrus, ber and peaches, important pests and diseases of fruit and their control.
4. Common weeds of the Punjab and their control.
5. Farm Management-Study of farming as business, costs of farm operations of major crops; sowing, intercultural, harvesting and threshing, cost and income returns from major crops, simple farm records and accounts.

## **UNIT - 3**

### **AGRICULTURE BIOLOGY – BOTANY      16 Marks**

1. Biology-its definitions, comparison of living and non-living things, difference between animals and plants.
2. Cell-structure and cell division in plants, simple tissues in plants.
3. Elements of plant classification including major groups with common examples.
4. Study of the forms, structure and functions of root, stem, leaf and flower.
5. Vegetative reproduction-natural and artificial.
6. Seed structure of gram, pea, maize and castor and germination of seed. Conditions necessary for germination. Dispersal of seed.
7. Elementary study of bacteria and fungi and their economic importance.

## **UNIT - 4**

### **AGRICULTURE BIOLOGY – ZOOLOGY      16 Marks**

1. Study of animal cell-its structure and division of animals.
2. Study of simple tissues in animals.
3. Study of animal classification indicating major phyla with examples.



4. Protozoa-Study of Amoeba and Entamoeba.
5. Study of external characters of Liver fluke, Ascaris, Earthworm and their economic importance.
6. Study of general characters of insects with specific reference to the study of external characters of ak-grass hopper.
7. Study of external characters of frog, fish and rabbit.
8. Economic importance of mammals.

### **STRUCTURE OF QUESTION PAPER (PRACTICAL)**

**Time : 3 Hours**

**Marks:20**

1. The question paper will be set up by the examiner on the spot.
2. A group of students for practical should not be more than 20 students.
3. There will be two sections in the question paper. There will be 1-1 practical / activity from each section:
  - (i) **Soil and Crop Management Practices.**
  - (ii) **Agriculture Biology.**

The distribution of numbers is as follows:

- |  |                |
|--|----------------|
| • <b>2 practical / activities of 4-4 marks each.</b>   | <b>8 Marks</b> |
| • <b>Practical note book, chart &amp; other presentation.</b>  | <b>4 Marks</b> |
| • <b>Viva-voce</b>   | <b>4 Marks</b> |
| • <b>Identification of common weeds, crops and their seed and fruit trees, flowers, animals etc.</b> | <b>4 Marks</b> |

### **SYLLABUS (PRACTICAL)**

#### **SOIL MANAGEMENT AND CROP CULTURE**

1. Identification of soil by feel and touch method. Measurement of land.
2. Familiarity with farm implements and their handling, ploughing, preparation of seed-bed, sowing and harvesting of major field crops and vegetables and their harvesting.
3. Identification of common weeds, crops and their seed and fruit trees.

#### **AGRICULTURE BIOLOGY**

##### **PART-A**

General survey of plant kingdom, study of simple tissues of plant, structure and form of root, stem, leaf and flower. Demonstration of grafting, layering, budding, cutting,; Demonstration of studies of bacteria and fungi.

##### **PART-B**

1. General survey of animal kingdom.
2. Study of external characters of amoeba, liver fluke, ascaris, earthworm, ak-grass, hopper, frog, fish and rabbit.

**Note: Students will do all the practical work of the farm attached to the school and record in the practical note book maintained for this purpose.**