Entrance Test for B.Ed. Programme 2012
बी.एड. कार्यक्रम के लिए प्रवेश परीक्षा 2012

Total No. of Questions = 100 **Time : 120 Minutes**
कुल प्रश्नों की संख्या = 100 **समय : 120 मिनट**

The test booklet consists of two parts **'A'** & **'B'**. The total number of test items will be **100** of one mark each.
परीक्षा पुस्तिका दो भागों में विभक्त है, **'अ'** और **'ब'**। परीक्षा मदों की कुल संख्या **100** है जो प्रत्येक एक अंक का है।

	Subject विषय	No. of Questions प्रश्नों की संख्या	Marks अंक	Time समय
Part A **भाग अ**				
Section I खण्ड I	General English Comprehension सामान्य हिन्दी बोध	10	10	Composite time of two hours संयुक्त समय दो घंटे
Section II खण्ड II	Logical & Analytical Reasoning तार्किक एवं विश्लेषणात्मक चिन्तन	20	20	
Section III खण्ड III	Educational & General Awareness शैक्षिक एवं सामान्य चेतना	25	25	
Section IV खण्ड IV	Teaching-Learning and the School शिक्षण-अधिगम एवं विद्यालय	25	25	
Part B **भाग ब**	* Subject Competence **(any one)** विषयगत सक्षमता **(कोई एक)**	20	20	
Section V खण्ड V	(i) Science विज्ञान			
	(ii) Mathematics गणित			
	(iii) Social Science सामाजिक विज्ञान			
	(iv) English अंग्रेजी			
	(v) Hindi हिन्दी			

***NOTE : Any one subject is to be attempted from part 'B'.**
नोट : भाग 'ब' से कोई एक विषय करना है।

Read the instructions given on the OMR Response Sheet carefully before you start.
शुरू करने से पहले OMR उत्तर-पत्र पर दिए गए निर्देशों को ध्यानपूर्वक पढ़िए।

Please see the Corrigendum at page no. 2

P.T.O.

Corrigendum for B.Ed. Prospectus Jan 2014

1. The dates mentioned for submission of applicatin form at page No. 1 and page No. 3 of application form i.e. page No. 119 is 15th July 2013 **may be read as 8th August 2013**.

2. The date mentioned for the entrance examination at page No. 1 & page No. 17 is 18th August which **may be read as 8th September 2013**.

3. The first line at page No. 90 states that "this booklet contain the sample question paper and other related" **may be read as 'the booklet contains information"**.

4. Fees mentioned at page No. 92 is Rs. 17,400/- which **may be read as Rs. 20,000/-**.

5. The programme code of Teaching of Tamil is mentioned as ES 46 at Page No. 88 which **may be read as BESE 046**.

6. The sample question paper is being uploaded on the website of Ignou for the benefit of the students.

7. In hindi B.Ed. Prospectus January 2014 on first line of 2013 at page No. 118 **may be read as 2014.**

HOW TO FILL UP THE INFORMATION ON THE OMR RESPONSE SHEET (EXAMINATION ANSWER SHEET)

OMR उत्तर-पत्र पर सूचना भरने के निर्देश

1. Write your complete Enrolment No. in 9 digits. Also write your correct name, address with Pin Code in the space provided. Put your signatures on the OMR Response Sheet with date. Ensure that the Invigilator in your examination hall also puts his signatures with date on the OMR Response Sheet at the space provided. You should use HB Pencil.

   अपनी पूरी नामांकन संख्या (एनरोलमेंट नम्बर) 9 अंकों में लिखिए। दिये गये स्थान में अपना सही नाम व पिन कोड सहित पता भी लिखिए। OMR उत्तर-पत्र पर तिथि सहित अपने हस्ताक्षर कीजिए। यह भी सुनिश्चित कर लीजिए कि आपके परीक्षा कक्ष के निरीक्षक ने OMR उत्तर-पत्र पर दिए गये स्थान पर तिथि सहित हस्ताक्षर कर दिये हैं। आपको HB पेंसिल का प्रयोग करना चाहिए।

2. All information is to be filled up with HB Pencil. The circles corresponding to the digit are to be darkened with an HB pencil.

   पूरी सूचना HB पेंसिल द्वारा भरी जानी चाहिए। अंकों के संगत वृत्तों को HB पेंसिल से ही काला करना है।

3. Do not make any stray remarks on this OMR Response Sheet.

   इस OMR उत्तर-पत्र पर कोई अवांछित टिप्पणियाँ या निशान नहीं लगाइए।

4. Write correct information in numerical digit in Enrolment No. and Examination Centre Code columns. The corresponding circles should be dark enough and should be filled in completely.

   नामांकन संख्या और परीक्षा केन्द्र कोड वाले कॉलमों में अंकों में सही सूचना लिखिए। संगत वृत्त पर्याप्त गहरे होने चाहिए और पूरी तरह से भरे हुए होने चाहिए।

5. Each question is followed by four (or less) probable answers, which are numbered 1, 2, 3 and 4. You should select and show only one answer to each question considered by you as the most appropriate or the correct answer. Select the most appropriate answer. Then by using HB pencil, blacken the circle bearing the correct answer number against the serial number of the question. If you find that answer to any question is none of the four alternatives given under the question you should darken the circle '0'.

प्रत्येक प्रश्न के बाद चार (या कम) संभावित उत्तर हैं, जो 1, 2, 3 तथा 4 द्वारा निरूपित किये गये हैं। प्रत्येक प्रश्न के लिए आपको केवल एक उत्तर चयनित करके निर्दिष्ट करना चाहिए जिसे आप सर्वाधिक उचित या सही उत्तर मानते हैं। सर्वाधिक उपयुक्त उत्तर चुनिए। तत्पश्चात् HB पेंसिल के प्रयोग द्वारा प्रश्न के क्रमांक के सामने सही उत्तर संख्या वाले वृत्त को काला कीजिए। यदि आप पाते हैं कि प्रश्न के नीचे दिये चार विकल्पों में से कोई भी सही उत्तर नहीं है तो आपको वृत्त '0' को काला करना चाहिए।

6. If you wish to change your answer, **ERASE** completely the already darkened circle by using a good quality eraser and then blacken the circle bearing your revised answer number. If incorrect answer is not erased completely, smudges will be left on the erased circle and the question will be read as having two answers and will be ignored for giving any credit.

यदि आप कोई उत्तर को बदलना चाहें, तो पहले से ही काले किये वृत्त को एक अच्छी गुणवत्ता वाले रबर से पूरी तरह मिटा दीजिए और संशोधित उत्तर संख्या वाले वृत्त को काला कीजिए। यदि गलत उत्तर को पूरी तरह नहीं मिटाया गया तो मिटाये गये वृत्त में कुछ निशान रह जायेंगे और प्रश्न के दो उत्तर दिये हुऐ माने जायेंगे और अंक गिनते समय वह अस्वीकार किया जायेगा।

7. No credit will be given if more than one answer is given for one question. Therefore, you should select the most appropriate answer.

यदि एक प्रश्न के लिये एक से अधिक उत्तर दिया जायेगा तो कोई अंक नहीं दिये जायेंगे। इसलिए आपको सर्वाधिक उचित उत्तर का चयन करना चाहिए।

8. You should not spend too much time on any one question. If you find any particular question difficult, leave it and go to the next. If you have time left after answering all the questions, you may go back to the unanswered ones.

किसी एक प्रश्न पर अधिक समय नहीं लगाइए। यदि आपको कोई विशिष्ट प्रश्न कठिन लगता है, तो उसे छोड़कर अगले पर जाइए। पूरे प्रश्नों का उत्तर देने के बाद यदि आपके पास समय है, तो आप उन प्रश्नों पर वापस जा सकते हैं जिसका आपने उत्तर नहीं दिया है।

9. **Only one subject is to be attempted from PART 'B'.**

भाग 'ब' से केवल एक ही विषय करना है।

You will attempt the questions as under :

आपको प्रश्न निम्नानुसार करने हैं :

Sl. No. **क्रमांक**	**Subject** **विषय**	**No. of Questions** **प्रश्नों की संख्या**
(i)	Science विज्ञान	Q. Nos. 81 to 100 प्रश्न संख्या 81 से 100
(ii)	Mathematics गणित	Q. Nos. 101 to 120 प्रश्न संख्या 101 से 120
(iii)	Social Science सामाजिक विज्ञान	Q. Nos. 121 to 140 प्रश्न संख्या 121 से 140
(iv)	English अंग्रेजी	Q. Nos. 141 to 160 प्रश्न संख्या 141 से 160
(v)	Hindi हिन्दी	Q. Nos. 161 to 180 प्रश्न संख्या 161 से 180

GENERAL INSTRUCTION

सामान्य निर्देश

1. No cell phones, calculators, books, slide-rules, note-books or written notes, etc. will be allowed inside the examination hall.
   परीक्षा कक्ष के अन्दर कोई सेल फोन, कैल्कुलेटर, पुस्तकें, स्लाइड-रूल, नोट-बुक या लिखित नोट इत्यादि लाने की अनुमति नहीं है।

2. You should follow the instructions given by the Centre Superintendent and by the Invigilator at the examination venue. If you violate the instructions you will be disqualified.
   परीक्षा स्थल पर आपको केन्द्र अधीक्षक और निरीक्षक द्वारा दिये गये निर्देशों का पालन करना है। यदि आप उनके निर्देशों का उल्लंघन करेंगे तो आपको अयोग्य घोषित किया जायेगा।

3. Any candidate found copying or receiving or giving assistance in the examination will be disqualified.
   परीक्षा में यदि कोई परीक्षार्थी नकल करते हुए या सहायता देते हुए या प्राप्त करते हुए पाया गया तो उसे अयोग्य घोषित किया जायेगा।

4. The Test Booklet and the **OMR** Response Sheet (Answer Sheet) would be supplied to you by the Invigilators. After the examination is over, you should hand over the **OMR** Response Sheet to the Invigilator before leaving the examination hall. Any candidate who does not return the **OMR** Response Sheet will be disqualified and the University may take further action against him/her.
   आपको निरीक्षकों द्वारा परीक्षा पुस्तिका और **OMR** उत्तर-पत्र दिये जायेंगे। परीक्षा के समाप्त होने पर परीक्षा कक्ष छोड़ने से पहले आपको **OMR** उत्तर-पत्र निरीक्षक को सौंप देना चाहिए। जो परीक्षार्थी अपने **OMR** उत्तर-पत्र को नहीं लौटाता है, उसे अयोग्य घोषित किया जायेगा और विश्वविद्यालय उसके विरूद्ध आगे कार्यवाही करेगा।

5. All rough work is to be done on the test booklet itself and not on any other paper. Scrap paper is not permitted. For arriving at answers you may work in the margins, make some markings or underline in the test booklet itself.
   सभी रफ कार्य परीक्षा पुस्तिका पर ही किया जायेगा और किसी अन्य कागज पर नहीं। कागज के कोई अन्य टुकड़ों की अनुमति नहीं है। उत्तरों तक पहुँचने के लिये आपको परीक्षा पुस्तिका में मार्जिनों में काम करने, कुछ निशान लगाने या उसमें रेखांकित करने की अनुमति है।

6. The University reserves the right to cancel scores of any candidate who impersonates or uses/adopts other malpractices or uses any unfair means. The examination is conducted under uniform conditions. The University would also follow a procedure to verify the validity of scores of all examinees uniformly. If there is substantial indication that your performance is not genuine, the University may cancel your score.

विश्वविद्यालय किसी ऐसे परीक्षार्थी के प्राप्तांक निरस्त करने का अधिकार रखती है जो छद्मरूप धारण करता है या कोई अन्य दुराचार अपनाता है या प्रयोग करता है या अनुचित साधन प्रयोग करता है। परीक्षा एकसमान स्थितियों के अधीन संचालित की जा रही है। विश्वविद्यालय सभी परीक्षार्थियों के प्राप्तांकों की मान्यता एकसमान रूप से जाँचने की क्रियाविधि अपनायेगी। यदि पर्याप्त संकेत है कि आपका निष्पादन असली नहीं है, तो विश्वविद्यालय आपके प्राप्तांक निरस्त कर सकती है।

7. Candidates should bring their hall tickets duly issued by the Registrar. In the event of your qualifying the Entrance Test, this hall ticket should be enclosed with your admission form while submitting it to the University for seeking admission in B.Ed. Programme along with your testimonials and programme fee. Admission forms received without hall ticket in original will be summarily rejected.

परीक्षार्थियों को कुल सचिव द्वारा जारी किया गया हाल टिकट लाना चाहिए। यदि आप प्रवेश परीक्षा में योग्य घोषित किये जाते हैं तो बी.एड. कार्यक्रम में प्रवेश हेतु विश्वविद्यालय में अपने प्रमाण-पत्र व प्रोग्राम शुल्क देते हुए आपको प्रवेश फॉर्म के साथ इस हाल टिकट को संलग्न करना चाहिए। जो प्रवेश फॉर्म बिना मूल हाल टिकट के प्राप्त किये जायेंगे उन्हें सरासरी तौर पर निरस्त कर दिया जायेगा।

PART-A

SECTION-I : GENERAL ENGLISH COMPREHENSION

Directions : *Read the following passage carefully and choose the best answer out of the four choices given after each question :*

While my mother's parents spent their lives in New York, my paternal grandparents were born and raised in neighbouring villages of Austria. My grandfather's father owned a liquor store and was very religious. My grandfather was the academic of the family. He completed high school, college and graduate degrees. He worked as a teacher and principal, much more respected positions then than now. I connected deeply with this grandfather, Herman. He and I are sensitive, loving, prone to worry, and innately talented teachers.

Though my grandparents and great grandparents were born in Austria, I am not Austrian. This I believe, is the case for many Jews in the United States. Belonging to this religion is a cultural heritage as well as a faith. Though I rarely think of myself as Jewish and pay small heed to the holy days, Judaism is a large part of my identity.

1. The main purpose of the passage is to :

(1) Inform (2) Persuade (3) Apologize (4) Praise

2. The narrator does not consider himself Austrian because :

(1) his grandparents were not born there

(2) his religion defines his heritage

(3) he is most connected to his grandfather

(4) he does not think of himself as Jewish

3. The word 'paternal' means :

(1) great (2) on my mother's side

(3) on my father's side (4) Austrian

4. The author gives all the following as support for his grandfather being an 'academic' except :

(1) he was a talented teacher (2) he completed graduate degrees

(3) he worked as a principal (4) he was prone to worry

5. What is implied by "pay small heed to the holy days" ?

(1) The narrator contributes very little money to religious organizations

(2) The narrator rarely observes Jewish holy days

(3) Judaism is a large part of the narrator's identity

(4) The narrator is not Jewish

6. "My grandfather's father owned a liquor store and was very religious" is a :

(1) simple sentence (2) complex sentence

(3) compound sentence (4) complex - compound sentence

7. "Though my grandparents and great grandparents were born in Austria, I am not Austrian" is a :

(1) complex sentence (2) compound sentence

(3) complex - compound sentence (4) simple sentence

8. The author's great grandfather was a :

(1) priest (2) teacher (3) principal (4) shop owner

9. The word 'innately' means :

(1) naturally (2) deeply (3) secretly (4) intimately

10. 'Belonging' in the sentence "Belonging to this religion is a cultural heritage as well as faith" is :

(1) Gerund (2) Present Participle (3) Past Participle (4) Noun

PART-A

SECTION-II : LOGICAL AND ANALYTICAL REASONING

Directions : *In the following questions you are given a series with one term missing. Select the missing term from the given options :*

11. 1, X, 5, T, 9, P, 13, __?__.

(1) 15 (2) L (3) 17 (4) J

12. 8, 15, 29, 57, __?__.

(1) 99 (2) 101 (3) 103 (4) 113

13. 2, 4, 16, __?__ , 65536

(1) 64 (2) 96 (3) 256 (4) 4096

14. A, E, __?__ , O, U

(1) I (2) F (3) H (4) L

15. 0200, 1202, 2204, 3309, __?__.

(1) 3412 (2) 4416 (3) 5305 (4) 4406

16. Some leaders are dishonest. Satya Prakash is also a leader. Based on these statements, which one of the following inferences can be definitely correct ?

(1) Satya Prakash is honest. (2) Satya Prakash is dishonest.

(3) Some leaders are honest. (4) Leaders are mostly dishonest.

17. If Tuesday falls on the fourth of the month, then the day that dawns three days after the 24th will be :

(1) Thursday (2) Wednesday (3) Tuesday (4) Saturday

Directions : (18 - 22)

In the following questions (18 - 22) there are groups of four letters in some order, one of them does not follow the same order. Identify the same.

18. (1) IKMO (2) QSUW (3) YACE (4) GITO

19. (1) WXDC (2) PQKJ (3) TVGF (4) NOML

20. (1) PQRS (2) LMOP (3) DEFG (4) YZAB

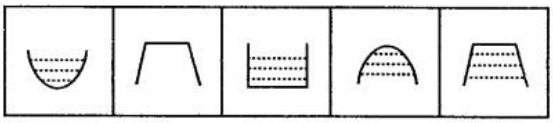
21. (1) ALBK (2) LOMN (3) EVFU (4) GTHR

22. (1) EUHS (2) AYCW (3) CWEU (4) DVFT

Directions : (23 - 26)

In each of the following questions, there are five figures marked A, B, C, D, E. A and other three have some common elements/characteristics. Select the odd figure.

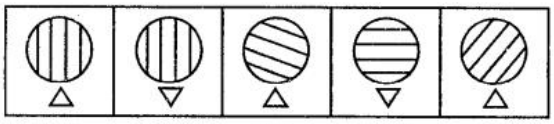
23.



(A) (B) (C) (D) (E)

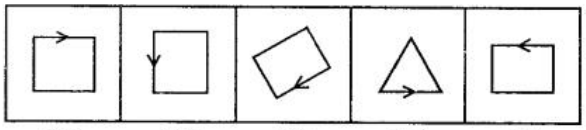
(1) C (2) B (3) E (4) D

24.

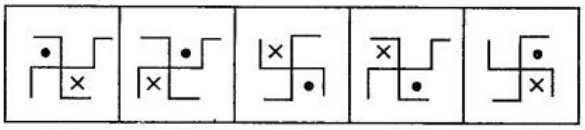


(A) (B) (C) (D) (E)

(1) B (2) C (3) D (4) E

25. 

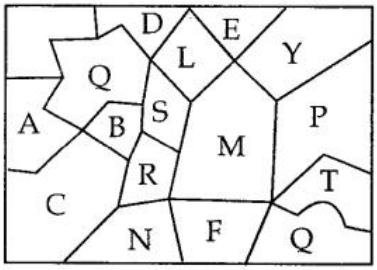
(1) B (2) C (3) D (4) E

26. 

(1) B (2) C (3) D (4) E

Directions : (27 - 30)

Based on the given diagram, answer the following questions :



27. Which area has nine boundary lines ?

(1) C (2) Q (3) M (4) B

28. Which area has boundaries of equal length ?

(1) C (2) F (3) L (4) None

29. Which area has five boundary lines ?

(1) D (2) P (3) C (4) None

30. Which areas share a curved boundary ?

(1) Q, T (2) N, R (3) F, N (4) N, F

PART-A

SECTION-III : EDUCATIONAL AND GENERAL AWARENESS

Instruction : *Each question is followed by four alternative responses choose the best answer and write its serial number.*

31. The reverberation of sound in hall results due to continued :

(1) reflection (2) Interference (3) Diffraction (4) Absorption

32. We eat food :

(1) Just to satisfy the sense of taste

(2) As a response to hunger arising from the thalamus

(3) To produce chemical energy for various metabolic activities

(4) To produce heat energy for various metabolic activities

33. Which one of the following features of the Fundamental Rights under Indian Constitution is **not correct** ?

(1) They are above ordinary laws

(2) They are absolute

(3) They are justiciable

(4) They are enshrined in Part III of the Constitution

34. Who founded the Servants of India Society in 1905 ?

(1) Dadabhai Naoroji (2) Gopal Krishna Gokhle

(3) Motilal Nehru (4) Madan Mohan Malviya

35. The Panchayati Raj system is aimed at :

(1) Making villages self sufficient

(2) Establishing economic prosperity of the villagers

(3) Providing political base for parties in villages

(4) Having democratic decentralisation

36. Who was the first Muslim president of the Indian National Congress ?

(1) Hakim Ajmal Khan (2) Rafi Ahmed Kidwai

(3) Abul Kalam Azad (4) Badruddin Tayyabji

37. What is the significance of Chauri-Chaura in the history of Indian National Movement ?

(1) Gandhiji started his Non Cooperation Movement from here

(2) Gandhiji started his Dandi March from here

(3) Gandhiji withdrew his Non Cooperation Movement

(4) Gandhiji started his Satyagrah from here

38. Which of the following states has a literacy rate above 90 percent ?
(1) Mizoram (2) Kerala
(3) Tamilnadu (4) Himachal Pradesh

39. When you rub together two blocks of ice the immediate effect will be that :
(1) They melt faster (2) They stick together
(3) They become hard (4) The temperature will decrease

40. A fresh egg sinks in pure water but floats in saline water because :
(1) Saline water is lighter than pure water
(2) Saline water is denser than pure water
(3) Surface tension of saline water is lower than pure water
(4) Viscosity of saline water is higher than that of pure water

41. Bile secreted by the liver gets stored in the :
(1) Liver itself (2) Spleen
(3) Duodenum canal (4) Gall bladder

42. Which is the largest fishing ground in the world ?
(1) Japan sea (2) North East Pacific
(3) North sea (4) New found land waters

43. Which of the following peaks is not situated in the Himalayan range ?
(1) Dhaulagiri (2) Nanda Devi
(3) Godwin Austin (4) Kanchenjunga

44. Radhakrishnan commission had focussed on :
(1) Higher Education (2) Higher Secondary Education
(3) Secondary Education (4) Elementary Education

45. A committee headed by Malcom Adisheshaiya looked into various aspects of :
(1) Higher Education and Research (2) Vocational Education
(3) Secondary Education (4) Elementary Education

46. National Curriculum Framework (NCF 2005) lays emphasis on :
(1) Behaviourism (2) Naturalism (3) Pragmatism (4) Constructivism

47. National Policy on Education 1986 had recommended establishing :
(1) Institutes for Vocational Education
(2) State Councils of Educational Research and Training
(3) District Institutes of Education and Training
(4) Institutes of Technical Training

48. Continuous and Comprehensive Evaluation (CCE) has been introduced for :
(1) Assessing cognitive development comprehensively
(2) Allowing children to pass easily
(3) Assessing the growth of children in all aspects of their personality
(4) Assessing only non-cognitive development of children

49. As per Right to Free and Compulsory Education Act, 2009 :
(1) Physical punishment and mental harrassment of children has been banned.
(2) Physical punishment and mental harrassment of children has been partially banned.
(3) Physical punishment and mental harrassment of children has been left to the discretion of Head Teacher
(4) Physical punishment and mental harrassment has been allowed with the consent of parents.

50. Remedial Teaching involves :
(1) Reteaching the lesson
(2) Identification of learning difficulties and applying corrective measures
(3) Diagnosing learning problems
(4) Paying individual attention

51. Negatively skewed curve represents :
(1) very low quality (2) low quality
(3) moderate quality (4) high quality

52. Which of the following is **not** the function of the School Management Committees of Elementary Schools ?
(1) Monitor the working of the school
(2) Prepare and develop School Development Plan
(3) Monitor the utilization of the grants received
(4) Make recommendations for teacher's promotion and awards

53. Aptitude reveals one's prospects of success in :
(1) Handling difficult tasks (2) A particular profession
(3) General studies (4) Social effectiveness

54. Tarachand Committee is known for its recommendation on :
(1) Women Education (2) Early Childhood Education
(3) Religious and Moral Education (4) Secondary Education

55. Function of the NCTE is to regulate :
(1) Higher Education (2) Teacher Education
(3) Technical Education (4) Technology in Education

PART-A

SECTION-IV : TEACHING-LEARNING AND THE SCHOOL

56. Curriculum in schools means :

(1) all the educative experiences under the school's jurisdiction

(2) all the subjects offered by the school

(3) all the learning experiences provided in the class

(4) all the academic works undertaken in schools and communities

57. Which of the following reflects autocratic style of leadership ?

(1) the subordinates are asked for suggestions by the leader

(2) the leader's domination is accepted by the subordinates

(3) leader is considerate while framing policies

(4) the subordinates use intelligent criticism in participating in policy-making

58. Integration of subject matter content can be done at :

(1) elementary level only

(2) secondary level only

(3) senior secondary level only

(4) all the above levels

59. A child with problems is generally one who :

(1) has no brother or sister at home.

(2) is maladjusted

(3) has a poor environment

(4) has low intelligence

60. In orienting a newly admitted student in the school, teacher should :

(1) place the emphasis upon school rules

(2) avoid talking about school expectations

(3) utilize the services of class mates to familiarize her/him with the school

(4) employ a fixed content weekwise and monthwise

61. Which of the following statement is the most questionable as applied to student's appraisal ?

(1) Appraisal validity is possible inspite of weaknesses in tests

(2) Student's behaviour must be related to his/her total performance

(3) Student's appraisals are samples of the total personal achievements

(4) Appraisal should be integrated and not dependent on isolated components

62. Which one would be the most effective model in facilitating learning ?
(1) a sound and visual film
(2) a visual film with teacher's explanation
(3) a sound tape with teacher's notes
(4) all the above are equally effective

63. Physical punishment in schools has been banned because :
(1) it may create a trauma among students.
(2) students do not like it.
(3) parents reject it.
(4) it has negative impact on learning.

64. What should be the primary objective of introducing sports in schools ?
(1) Developing a spirit of competition
(2) Supplementing cognitive development of learner
(3) Providing opportunities for psycho motor development
(4) Developing physical strength

65. Why should there be discipline in the class ?
(1) Children should realize the benefits of an organised and orderly world
(2) Children should accept the authority of teacher
(3) Children should feel that it is mandatory
(4) It will help them in case they choose to become teacher

66. Why must the teacher be concerned about children's activities outside the school ?
(1) The children are often interested in out - of - school activities.
(2) The children are likely to learn bad habits.
(3) Somebody other than parents should watch out - of - school activities.
(4) The children also learn through out-of-school experiences.

67. Which of the following is **not** a valid reason for limited use of radio/television for educational purposes in schools ?
(1) All subject matter does not lend itself to its use.
(2) Students are not allowed to access it at home.
(3) We have been slow to produce such programmes.
(4) Many parents have reservations about its use.

68. Which one of the following is the most crucial task of a teacher ?

(1) Communicating to learners (2) Transmitting knowledge

(3) Promoting quality learning (4) Managing the class

69. To the teacher of the next grade, transfer of learning means :

(1) adjustment (2) maturity (3) retention (4) readiness

70. It can safely be assumed that a student understands a principle when she/he can :

(1) give more examples of it

(2) use it in solving problems to which it applies

(3) recognize it again when she/he encounters again

(4) recall the principle as and when asked

71. One of the most important way of fostering problem solving ability among learners is :

(1) to provide them with formal, reasoning techniques

(2) to keep them busy in 'stiff' academic courses

(3) to refuse to accept pat answers

(4) to stimulate the formation of a critical attitude

72. Which of the following comes first in the sequence of attaining a concept ?

(1) abstraction (2) differentiation

(3) experiencing (4) generalization

73. Desirable attitudes can be developed most effectively through ;

(1) meaningful participation in worthwhile activities influencing attitudes

(2) experience with the object of attitude

(3) identification with proper heroes

(4) emphasis upon social and moral concepts

74. A teacher while introducing a new subject to her/his class for the first time should :

(1) Begin the first lesson without wasting time

(2) Give the class a broad outline of the subject

(3) Check the previous grades of students

(4) Check the previous knowledge of students

75. Which of the following methods of study, is the most likely to result in efficient use of time ?

(1) taking time to react to what is being studied

(2) arranging the details into some structural framework

(3) comprehending the meaning before attempting to memorize

(4) mastering completely each concept before proceeding to next

76. Which of the following would constitute an adequate way of dealing with the gifted child ?

(1) giving them double promotions

(2) using them as class leaders

(3) leaving them to find things of their own interest

(4) None of the above is adequate

77. Which of the following would be the best way to develop value-cooperation ?

(1) organising a camp for one month

(2) organising lectures on the topic

(3) organising cultural programme

(4) presenting a model

78. In order to develop a good rapport with students a teacher should :

(1) be friendly with them (2) pay individual attention

(3) love all student equally (4) communicate effectively

79. While using AV aids in the class room, what should be the guiding principle for its selection ?

(1) relevance (2) availability (3) usability (4) all the above

80. The most important cause of teacher failure in discipline in class is the teacher's lack of :

(1) competence in teaching methods

(2) knowledge of his/her subject

(3) a constructive program of meaningful things to be learned

(4) knowledge of educational psychology

PART-B
SECTION-V (i) : SCIENCE

81. What happens, when dilute hydrochloric acid is added to iron fillings ?
(1) Hydrogen gas and iron (II) chloride are produced.
(2) Chlorine gas and iron hydroxide are produced.
(3) No reaction takes place.
(4) Iron salt and water are produced.

82. Which one of the following types of medicines is used for getting relief from pain ?
(1) Antibiotic (2) Analgesic (3) Antacid (4) Antiseptic

83. In a neuron, conversion of electrical signal to chemical signal occurs in/at :
(1) cell body (2) axon terminal (3) dendrites (4) axon

84. Which of the following terms does not represent electrical power in a circuit :
(1) I^2R (2) IR^2 (3) VI (4) V^2/R

85. The two forms of energy released by a tungsten filament used in a bulb are :
(1) electrical and light (2) light and heat
(3) heat and electrical (4) electrical only

86. Acid rain is caused by the oxides of :
(1) sulphur (2) carbon (3) nitrogen (4) all of the above

87. Fuel used in thermal power plant is :
(1) water (2) uranium (3) biomass (4) fossil fuel

88. A well stained leaf peel mount, when observed under the high power of microscope shows nuclei in :
(1) only epidermal cells (2) only guard cells
(3) guard cells and epidermal cells (4) guard cells, epidermal cells and stoma

89. While cooking, if the bottom of the vessel is getting blackened on the outside, it means that :
(1) the food is not cooked completely.
(2) the fuel is not burning completely.
(3) the fuel is wet.
(4) the fuel is burning completely.

90. Yeast multiplies by :
(1) multiple fission (2) binary fission
(3) budding (4) cyst formation

91. Percentage of water absorbed by raisins is :

(1) Directly proportional to the weight of dry raisins

(2) Inversely proportional to the weight of dry raisins.

(3) Equal to the weight of dry raisins.

(4) None of these.

92. According to the Law of Reflection :

(1) The angle of incidence is equal to the angle of reflection.

(2) The angle of incidence is double the angle of reflection.

(3) The angle of reflection is double the angle of incidence.

(4) None of the above.

93. The characters transmitted from parents to offsprings are present in :

(1) cytoplasm (2) ribosome (3) golgi bodies (4) genes

94. The branch of biology dealing with the transmission of characters from one generation to other is termed as :

(1) Mycology (2) Genetics (3) Anatomy (4) Physiology

95. The SI unit of converging ability of a lens is :

(1) cm (2) m (3) dioptre (4) power

96. An alloy is :

(1) an element (2) a compound

(3) a homogenous mixture (4) a heterogenous mixture

97. The fossil remains of Archaeopteryx is a connecting link between :

(1) reptiles and mammals (2) reptiles and birds

(3) fish and amphibian (4) amphibian and reptile

98. A pacemaker is meant for :

(1) transplanting liver (2) transplanting heart

(3) regulation of heart beats (4) regulation of blood flow

99. Renewable energy is preferred over the conventional energy as they are :

(1) non-exhaustible (2) costly

(3) highly efficient (4) none of these

100. The pH of the gastric juices released during digestion is :

(1) less than 7 (2) more than 7

(3) equal to 7 (4) equal to 0

PART-B

SECTION-V (ii) : MATHEMATICS

101. The value of $\frac{1}{\sqrt{2}+\sqrt{3}-\sqrt{5}} + \frac{1}{\sqrt{2}-\sqrt{3}-\sqrt{5}}$ is :

(1) $\frac{1}{\sqrt{2}}$ (2) $\frac{1}{\sqrt{3}}$ (3) $\frac{1}{\sqrt{5}}$ (4) 1

102. How many numbers between 1 and 1000 contain all the numbers 2, 3, 4, 5, 6 as factors ?

(1) 20 (2) 18 (3) 16 (4) 12

103. The value of $\frac{(0.734)^2 - (0.266)^2}{.468}$ is :

(1) 1.010 (2) 1.000 (3) 1.001 (4) 1.100

104. A manufacturer sells a pen to a wholesaler at a profit of 18%, the wholesaler sells it to a retailer at a profit of 20%. The retailer sells it to a customer at a profit of 25%. If the customer pays Rs. 35.40, the cost of the manufacturer is :

(1) Rs. 15 (2) Rs. 17 (3) Rs. 20 (4) Rs. 22

105. There are 600 men in a fort. If each one of them is given 180 g of ration daily, there is ration enough for 35 days. If 300 men are increased and the ration is decreased to 150 g daily, the number of days for which the ration will be sufficient now is :

(1) 30 days (2) 28 days (3) 25 days (4) 24 days

106. The difference between compound and simple interest on a certain sum for 3 years at 10% is Rs. 31. The sum is :

(1) Rs. 1500 (2) Rs. 1200 (3) Rs. 1000 (4) Rs. 800

107. An article is sold for Rs. 400 cash down or Rs. 100 cash and three monthly instalments of Rs. 105 each. The rate of interest under instalment plan is :

(1) 30.77% (2) 32.70% (3) 33% (4) 35%

108. A student has to obtain 40% marks to pass the examination. He secures 40 marks and fails by 20 marks. The total marks for the examination are :

(1) 180 (2) 160 (3) 150 (4) 125

109. If a cyclist moves at 24 km per hour, he reaches his destination 5 minutes too late and if he cycles at 30 km per hour, he reaches his destination 4 minutes too soon. The distance the cyclist covers is :

(1) 15 km (2) 18 km (3) 20 km (4) 22 km

110. The value of $\frac{\tan 45^\circ}{\text{cosec } 30^\circ} + \frac{\sec 60^\circ}{\cot 45^\circ} - \frac{5 \sin 90^\circ}{2 \cos 0^\circ}$ is :

(1) 1 (2) -1 (3) 0 (4) 2

111. The value of $(\cos\theta - \sin\theta)^2 + (\cos\theta + \sin\theta)^2$ is :

(1) 2 (2) -2 (3) 1 (4) 0

112. If from a point 20 m away from the foot of a tower, the angle of elevation of the top of the tower is 30°, then the height of the tower is :

(1) $20\sqrt{3}$ m (2) $\frac{20}{\sqrt{3}}$ m (3) $10\sqrt{3}$ m (4) $\frac{10}{\sqrt{3}}$ m

113. In a mixture of 35 litres, the ratio of milk and water is 5 : 2. Another 5 litres of milk is added to the mixture. The ratio of milk and water in the new mixture is :

(1) 3 : 1 (2) 1 : 3 (3) 2 : 3 (4) 3 : 2

114. If the radius of its circumcircle of a right angled triangle is 3 cm and altitude drawn to the hypotenuse is 2 cm, its area would be :

(1) 12 sq. cm (2) 9 sq. cm (3) 6 sq. cm (4) 4 sq. cm

115. Three cubes each of volume 125 cm^3 are joined end to end to form a cuboid. The surface area of the resulting cuboid is :

(1) 350 cm^2 (2) 300 cm^2 (3) 175 cm^2 (4) 150 cm^2

116. A spherical ball of diameter 21 cm is melted and recasted into cubes each of side 1cm, the number of cubes thus formed is :

(1) 693 (2) 809 (3) 1617 (4) 4851

117. The mean of 5 numbers is 18. If one number is excluded, their mean is 16. The excluded number is :

(1) 90 (2) 64 (3) 26 (4) 80

118. Three unbiased coins are tossed. The probability of obtaining at least two tails is :

(1) $\frac{1}{8}$ (2) $\frac{3}{8}$ (3) $\frac{1}{2}$ (4) $\frac{1}{4}$

119. The circumcentre of a triangle whose vertices are $(-2, -3)$, $(-1, 0)$, $(7, -6)$ is :

(1) $(3, -3)$ (2) $(3, -2)$ (3) $(-3, 2)$ (4) $(2, -2)$

120. The 6^{th} term from the end of an Arithmetic Progression (A. P.) 17, 14, 11,....., -40 is equal to :

(1) -21 (2) -25 (3) -22 (4) -24

PART-B

SECTION-V (iii) : SOCIAL SCIENCE

Choose the correct answer out of the four :

121. Which type of the forest belt supplies most of the world's requirement of Newsprint ?

(1) Evergreen forest (2) Decidous forest

(3) Coniferous forest (4) Mediterranian forest

122. Who were the first of the kings to issue gold coins in India ?

(1) Mauryas (2) Indo Greeks (3) Guptas (4) Kushans

123. Dhai-Din-Ka-Jhopra at Ajmer was constructed by :

(1) Sher Shah Suri (2) Qutb-ud-Din Abak

(3) Jalaludin-Firoz-Khilzi (4) Balban

124. In which of the following countries Gramin Bank (known as the Bank of the Poor) is based :

(1) Pakistan (2) Sri Lanka (3) India (4) Bangladesh

125. In which of the following states, the anti defection law was enacted in 1979 ?

(1) Kerala (2) Jammu and Kashmir

(3) West Bengal (4) Tamil Nadu

126. As per India Protocol who among the following ranks is the highest in the order of protocol ?

(1) Deputy Prime Minister

(2) Former President

(3) Governor of a state within the state

(4) Speaker of Lok Sabha

127. Who was Nagarjuna ?

(1) Indian Emperor (2) a Vedic rishi

(3) a Jain Monk (4) a Budhist Philosopher

128. What are 'teaser loan rates' charged by banks ?

(1) Fixed rate of interest charged by banks

(2) Floating rate of interest charged by banks

(3) Rate of interest in the initial period is less and goes up subsequently

(4) Rate of interest in the initial period is more and it goes down subsequently

129. Who amongst the following has asked Banks to adopt 'Six Steps' approach to prevent diversion of funds by the companies ?

(1) Company Registrar (2) SEBI (3) RBI (4) AMFI

130. The only viceroy to be assassinated in India was :

(1) Lord Hardings (2) Lord Northbrooke

(3) Lord Ellenborough (4) Lord Mayo

131. According to the Constitution of India the term 'District judge' shall not include :

(1) Chief Presidency Magistrate (2) Session judge

(3) Tribunal judge (4) Chief judge of a small cause court

132. Despite being a Republican state, India is a member of the Common-Wealth of Nations whose Head is the British Monarch. This is because :

(1) The membership does not affect the sovereign nature of the Indian Republic

(2) This membership only shows that the British ruled over India

(3) Members of the Association are sovereign and independent

(4) It is a symbol of the unity among British dominated nations.

133. When was the New Liberalised Industrial Policy announced in India ?

(1) 1989 (2) 1990 (3) 1991 (4) 1992