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FOR AP CLASS 10 PREPARATION

AP SSC Model Paper 2027 Biological Science - Model Paper 2 (English Medium)

EXAM	YEAR	TYPE	SUBJECT
AP Class 10	2027	Sample Paper	Biological Science

BLUE PRINT & MODEL PAPERS OF SSC PUBLIC EXAMINATIONS FOR THE ACADEMIC YEAR 2026-27

BY THE DIRECTOR OF GOVERNMENT EXAMINATIONS (SSC BOARD), A.P.

20E

S.S.C. PUBLIC EXAMINATIONS - BIOLOGICAL SCIENCE (MODEL PAPER - 2)

Marks: 50

Weightage to Abilities:

ABILITY	AWARENESS			SENSITIVITY			CREATIVITY					TOTAL
	KNOWLEDGE	UNDERSTANDING OF THE CONSTRUCT	UNDERSTANDING OF THE PROCESS	CONFLICT RESOLUTION	OPEN MINDEDNESS	COLLABORATION	GENERATE INNOVATIVE IDEAS	FLEXIBILITY	FLUENCY	EXPLORATION	COMBINING IDEAS/CONCEPTS	
% of Marks	12	24	24	4	8	8	4	2	8	4	2	100
Marks	6	12	12	4	2	4	2	1	4	2	1	50

Weightage to Form of Question

Forms of Questions	E/LA	SA	VSA	O (MCQ) - 1 Mark Qns	Total
No. of Questions	2	5	4	6	17
Marks Allotted	16	20	8	6	50
Estimated Time	30 min	40 min	20 min	15 min	105 min

Weightage to Chapters

S. No.	Unit/Sub-Units	Marks
1	Life Processes	18(4)
2	Control & Co-ordination	6(8)
3	How do organisms reproduce	6(8)
4	Heridity	10
5	Our Environment	10
Total		50 (20)

Note: 1. Total marks for abilities and Chapters are constant as per the weightage table.

2. Abilities are not fixed for chapters. They may vary from paper to paper.

3. The type of question or choice is not fixed for any chapter.

Weightage to Major Content Areas

Schemes of Sections	4/ Sec-I (6 x 1M); Sec-II (4 x 2M); Sec-III (5 x 4M); Sec-IV (2 x 8M)
Pattern of Options	Q.No 12 in Sec-III and Q.No 16 and 17 in Sec-IV only have internal choice

Estimated Difficulty Level	**Difficult**	**20**	**% Marks**
	Average	**40**	**% Marks**
	Easy	**40**	**% Marks**

Index of Abbreviations

(E/LA: Essay/Long Answer; **SA:** Short Answer; **VSA:** Very Short Answer; **O:** Objective)

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SSC PUBLIC EXAMINATIONS 2026 :BLUEPRINT

Subject: GENERAL SCIENCE-2 **Class:** 10 TH CLASS

Max Marks: 50 MARKS **Time:** 2 Hr.

S.NO	ABILITY	AWARENESS												SENSITIVITY												CREATIVITY																				TOTAL MARKS
	OBJECTIVE	Knowledge				Understanding of the Construct				Understanding of the Process				Conflict Resolution				Open mindedness				Collaboration				Generate innovative Ideas				Flexibilty				Fluency				Exploration				Combining Ideas/ Concepts				
	Form of Question CHAPTER	E/LA 8m	SA 4m	VSA 2m	O 1m	E/LA 8m	SA 4m	VSA 2m	O 1m	E/LA 8m	SA 4m	VSA 2m	O 1m	E/LA 8m	SA 4m	VSA 2m	O 1m	E/LA 8m	SA 4m	VSA 2m	O 1m	E/LA 8m	SA 4m	VSA 2m	O 1m	E/LA 8m	SA 4m	VSA 2m	O 1m	E/LA 8m	SA 4m	VSA 2m	O 1m	E/LA 8m	SA 4m	VSA 2m	O 1m	E/LA 8m	SA 4m	VSA 2m	O 1m	E/LA 8m	SA 4m	VSA 2m	O 1m	
1	. LIFE PROCESSES				1(1)		1(4)	1(2)		1(8)					1(4)																														1(1)	18(4)
2	CONTROL AND COORDINATION					1(8)	1(4)													1(2)																											6(8)
3	REPRODUCTION				1(1)		1(4)			1(8)																					1(1)																6(8)
4	HEREDITY				2(1)	1(8)																																									10
5	OUR ENVIRONMENT																						1(4)				1(2)								1(4)												10
		30(20) M												10M												10M																				50(20)

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SSC PUBLIC EXAMATINATIONS 2026 - 27

GENERAL SCIENCE -PAPER-II (MODEL PAPER - 2)

BIOLOGICAL SCIENCE

(ENGLISH VERSION)

Time : 2 Hours **Max. Marks : 50**

Instructions :

1. Question paper consists of 4 sections and 17 Questions.
2. Internal Choice is available only for Q.No. 12 in Section-III and for all the Questions in Section-IV.
3. In the duration of 2 hours, 15 minutes of time is allotted to read the Question paper.
4. All answers should be written in the answer booklet only.
5. Answer should be written neatly and legibly.

SECTION-I

Note : 1) Answer all the Questions.
2) Each question carries 1 mark. **(6 × 1 = 6 M)**

1. Expand HIV.
2. Round and Yellow coloured seeded (RRYY) plant is crossed with wrinkled and Green coloured seeded (rryy) plant. The type of plants appeared in F1 generation are
   (A) RRyy (B) RRYY (C) RrYy (D) rrYY
3. Which type of circulation is shown in the given picture?



4. Who proposed the rules of Inheritance?
5. Catalysts are the chemical substances, that help in completion of chemical reactions. Digestive enzymes help in the breakdown of complex food molecules and completes the digestion process. How do you describe digestive enzymes chemically?
6. Radha wanted to observe budding in yeast. She added a picn of yeast granules to the sugar solution, closed the container with a glass plate and kept it in a refrigerator. She could not seen the reproduction of yeast in the sample after few hours. What experimental conditions she has to alter to get the results successfully?
   A) She has to heat the sugar solution before observing the sample.
   B) She has to heat the sugar solution and keep it in a refrigerator.
   C) She has to keep the container in a warm place.
   D) She has to keep the container opened but not closed.

SECTION-II

Note : 1) Answer all the Questions.
2) Each question carries 2 marks. **(4 × 2 = 8 M)**

7. Design two slogans on "Prevention of food wastage".
8. Write two questions you want to ask a Physician to know more about Hemoglobin.
9. Though plants have no specialized tissue for the conduction of information as in animals, they can

pass information from cell to cell. How do you support the statement?

10. What is fermentation? Where do we use the process?

SECTION-III

Note : 1) Answer all the Questions.

2) Each question carries 4 marks.

3) There is an internal choice in question number 12. **(5 × 4 = 20 M)**

11. Differentiate Voluntary and Involuntary reactions.

12. A) Draw a well labelled diagram of Human Digestive System.

(OR)

B) Draw a diagram of a flower and label the parts.

13. Most of the waste substances we generate everyday are non biodegradable and they cause both health and Environmental issues. Suggest some solutions to getrid of these wastes.

14. Latha said that the plants don't excrete wastes. But Raghu had a different opinion that plants can manage most of their excretory substances in addition to excrete them. How do you resolve the conflict of opinions if you are their group leader?

15. A group of four students want to aware farmers on "Say no to pesticides" and planning some awareness campaigns. How do you contribute them to participate in their campaign?

SECTION-IV

Note : 1) Answer all the Questions.

2) Each question carries 8 marks.

3) Each question has an internal choice. **(2 × 8 = 16 M)**

16 A) Describe the procedure followed by you to prove the importance of chlorophyll in Photosynthesis. Mention the material used in the experiment.

(OR)

B) Describe the procedure followed in your school laboratory to observe spores in Rhizopus. Mention the precautions taken while handling the mold.

17. A) Reflex reactions play a significant role in escaping us from dangerous situations. Analyse how do the components of the reflex arc work in such a situation with an example.

(OR)

B) "Traits may be dominant or recessive" How would you analyse this statement as per Mendel's experiments?

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