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FOR AP CLASS 10 PREPARATION

AP SSC Model Paper 2027 Biological Science - Model Paper 1 (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 - 1)

Subject: General Science Paper - II (Biological Science)
Unit/Paper: 20 E/T
Class: X
Time: 2 Hrs
Marks: 50

Weightage to Ability

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	8	8	4	4	2	8	4	2	100
Marks	6	12	12	4	4	2	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	14(8)
2	Control & Co-ordination	6(8)
3	How do organisms reproduce	10(4)
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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Subject: GENERAL SCIENCE-II **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)8*	(1)4				(1)4																														(1)1	14(8)
2	Control and Co ordination				(2)2	(1)8*																	(1)2																(1)2						6(8)
3	How do organisms Reproduce									(1)8	(1)4*																(1)2																		10(4)
4	Heridity			(1)2		(1)8																																							10
5	Our Environment				(1)1														(1)4														(1)1		(1)4										
	Sub total	6				12				12				4				4				2				2				1				4				2				1				50
	Total	30												10												10																				50

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SSC PUBLIC EXAMATINATIONS 2026 - 27

GENERAL SCIENCE -PAPER-II (MODEL PAPER - 1)

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 ATP.
2. Which of the following is a growth inhibitor hormone
   A) Auxin B) Gibberellin C) Abscisic acid D) Cytokinin
3. Identify the secondary consumer ?



4. The peripheral nervous system consists of _____ and _____.
5. Due to a large number of plants, forests experience heavy rainfall. Usually, excess water is removed from the plants through the stomata in the form of vapour. How do you relate the phenomenon of transpiration to the heavy rainfall ?
6. A farmer named Ramaiah is continously cultivating a paddy crop in his field. Gradually, his crop yield is decreased, production cost increased and he is facing repeated losses. What should Ramaiah do to make his farm profitable again ?
   A) Use more fertilizers. B) Follow new irrigation techniques
   C) Have to change the crop D) Use effective chemical pesticides.

SECTION-II

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

7. Write two slogans to raise awareness about AIDS ?
8. What would happen if all body functions were controlled only by the brain ?

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9. While visiting a village, you and your friends observed goiter in many of the villgers. After discussing the issue, what suggestions would you give them to help improve their quality of life ?
10. What are the contrasting visible characters observed in the pea plant by Mendel.

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. Write the differences between arteries and veins.
12. Draw a neat labelled diagram of Stomata.

(OR)

Draw a neat labelled diagram of female reproductive system.

13. Most human activities cause ozone depletion. List these activities and provide some suggestions to protect the ozone layer.
14. Ravi and Raju are close friends and preparing for the SSC exams. Ravi thinks smoking relaxes him, but Raju says Yoga is better. Who is incorrect and how can you make him aware of the truth ?
15. Ramu belives that single use plastic makes our lives easy and is boon for the 21st century. Do you support him or not ? Why ?

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) Write the experimental procedure that you follow in your lab to prove the action of saliva on starch.

(OR)

B) Write an acitivy to observe asexual reproduction in yeast.

17. A) How is the sex of the child determined in human beings.

(OR)

B) Compare and constrast nervous and hormonal mechanisms for control and co-ordination in animals.

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