

MODEL PAPER - 2

**Subject:** General Science Paper - II (Biological Science)

**Unit/Paper:** 20 E/T

**Class:** X

**Time:** 2 hrs

**Marks:** 50

**Weightage to Objective**

Objective	Knowledge	Understanding	Application	Analysis	Evaluation	Creation	Total
% of Marks	20	25	20	15	10	10	100
Marks	10	12	10	8	5	5	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
<b>Total</b>		50 (20)

*Note: 1. Total marks for Objectives and Chapters are constant as per weightage table.*

*2. Competencies/ objectives are not fixed for chapters. They may vary from paper to paper.*

*3. Type of question or choice is not fixed for any chapter.*

**Weightage to Major Content Areas**

<b>Schemes of Sections</b>	4/ Sec-I (6 x 1M); Sec-II (4 x 2M); Sec-III (5 x 4M); Sec-IV (2 x 8M)
<b>Pattern of Options</b>	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)

BLUE PRINT AND MODEL PAPER OF SSC PUBLIC EXAMINATION FOR THE ACADEMIC YEAR 2025-2026  
BY THE DIRECTOR OF GOVT.EXAMINATIONS (SSC BOARD), A.P

MODEL PAPER -2  
BLUEPRINT

**Subject:** General Science paper -II  
(Biological Science)

**Class:** X

**Unit/Paper:** 20E/ T

**Max Marks:** 50 M

**Time:** 2 Hrs

S. No.	Objective →	Knowledge				Understanding				Application				Analysis				Evaluation				Creation				Total (Row-wise)
	Form of Questions																									
	Content Unit / Sub Unit	E/LA	SA	VSA	O	E/LA	SA	VSA	O	E/LA	SA	VSA	O	E/LA	SA	VSA	O	E/LA	SA	VSA	O	E/LA	SA	VSA	O	
1	Life Processes		(1) 4			(1)*8		(1) 2			(1) 4											(1) 4				14 (8)
2	Control & Co-ordination				(2) 2			(1) 2				(1)2		(1)*8												6 (8)
3	How do organisms				(1) 1	(1) 8					(1)*4													(1)1		10 (4)
4	Heridity				(1) 1									(1) 8							(1) 1					10
5	Our Environment			(1) 2							(1) 4							(1) 4								10
	Sub Total		(1) 4	(1) 2	(4) 4	(1) 8		(2) 4			(2) 8	(1) 2		(1) 8				(1) 4		(1) 1		(1) 4		(1) 1		
	Total (Col-wise) →	10 (Marks Total)				12(8) (Marks Total)				10(4) (Marks Total)				8(8) (Marks Total)				5 (Marks Total)				5 (Marks Total)				50(20)

**Notes:** Figures within brackets to indicate the number of questions and figures outside the brackets to indicate marks.

Denotes that marks have been combined to form one question.

**Summary:** Essay (E)

Short Answer (SA)

Very Short Answer (VSA)

Objective (O)

No.	2
No.	5
No.	4
No.	6

Marks:	16
Marks:	20
Marks:	8
Marks:	6

**Pattern of Options**

Internal choice

**Scheme of Sections**

IV

## SSC PUBLIC EXAMINATIONS 2025 - 26

### GENERAL SCIENCE -PAPER-II

### 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.

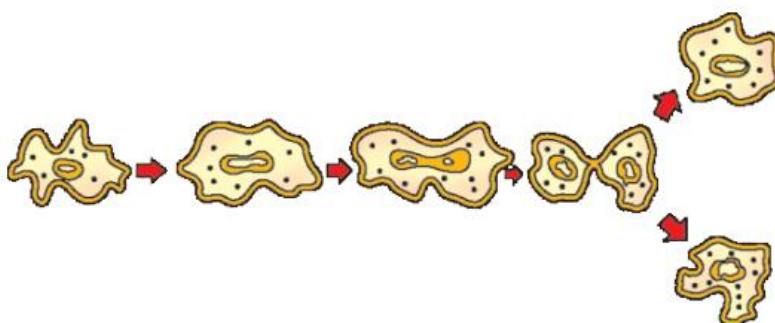
#### SECTION-I

**Note :** 1) Answer all the Questions.

2) Each question carries 1 mark.

(6 × 1 = 6 M)

1. Name the hormone responsible for phototropism in plants.
2. Write a slogan to stop female foeticide.
3. Transfer of characters from parents to progeny is known as .....
4. Olfactory receptors detect ( )  
A) touch      B) taste      C) smell      D) light
5. Identify the type of asexual reproduction in the given picture.



6. Two species, A and B, live in the same environment.
  - **Species A** shows a wide range of variations among its individuals.
  - **Species B** has individuals with very similar traits.

Which species is more likely to survive if the environment changes suddenly?

## **Section -II**

**Note:** 1. Each question carry two marks.

2. Answer all the questions

**(4 × 2 = 8 M)**

7. Explain the digestion of fats in the human beings.

8. Read the following table and answer the questions.

S.No.	Hormone	Endocrine gland	Function
1	Thyroxine	Thyroid gland	Regulate metabolism for body growth
2	Estrogen	Ovaries	Development of female sex organs, regulates menstrual cycle

A. Which gland secretions associated with the changes that occurs during puberty in females?

B. What is the function of the thyroxin hormone?

9. What precautions do you follow to protect yourself from the diabetes?

10. Define the trophic level and mention the different trophic levels in a food chain.

## **SECTION-III**

**Note :** 1) Answer all the Questions.

2) Each question carries 4 marks.

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

11. What are the components of the transport system in human beings? What are the functions of these components?

12. Draw a neat labelled diagram of the following

A) Nephron

(or)

B) Process of fertilization in the flower.

13. People in your locality are throwing plastic bags into the nearby water streams. What environmental problems may arise with this practice? How will you create awareness among the people about this issue?

14. Give some suggestions to control high blood pressure and to maintain healthy heart.

15. Which is the better method in waste disposal - 'burning' or 'composting'? Justify your answer with proper reasons.

#### **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)**

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16. A) Explain the lab activity to prove that carbon dioxide is necessary for photosynthesis

(OR)

B) Explain Lab activity what you followed in your school to observe spore formation in Rhizopus.

17.A) Compare and contrast nervous and hormonal mechanisms for control and coordination in animals.

(OR)

B) "The father is responsible for determining the sex of the baby, not the mother"- How would you analyse this statement?

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