



Total No. of Printed Pages : 3

Question Booklet Sl. No.

6427484



**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 for Q. No. 12 in Section – III and for all 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**

(6×1=6)

- Note :**
- 1) Answer **all** the questions.
  - 2) **Each** question carries 1 mark.

1. Name an organism in which the sex is determined by environment factors.



2. \_\_\_\_\_ hormone is secreted by testis.

3. Which part of the brain controls body equilibrium ?

4. What is the chromosomal number in human ovule ?



- |            |            |
|------------|------------|
| a) 22 + Y  | b) 22 + X  |
| c) 44 + XY | d) 44 + XX |

5. Write a slogan on female foeticide.

6. If a trait 'A' exists in 10% of population of an asexually reproducing species and a trait 'B' exists in 60% of the same population. Which trait is likely to have arisen earlier ?



## SECTION - II

- Note : 1) Answer all the questions.  
2) Each question carries 2 marks.

7. How does ozone formation occur at the higher layers of the atmosphere ?
8. Read given information and answer the following questions.

| Tropic Movement | Stimulus    |
|-----------------|-------------|
| Phototropism    | Light       |
| Thigmotropism   | Touch       |
| Chemotropism    | Chemical    |
| Geotropism      | Gravitation |

- a) Shoot of the plant bends and grows towards sunlight. Which type of response is this ?
- b) 'Tendrils grow towards the support'. Which type of response is this ?
9. Observe the flowchart indicating the pathway of air in the human respiratory system. Answer the A and B.

Nostrils → Nasal Cavity → **A** → Larynx → **B** → Bronchi.

10. What precautions do you take to avoid "Goitre" ?

## SECTION - III

(5×4=20)

- Note : 1) Answer all the questions.  
2) Each question carries 4 marks.  
3) There is an **internal** choice in Question No. 12 only.

11. What are the methods used by plants to get rid of wastes ?
12. A) Draw a neat labelled diagram of Human excretory system.  
OR  
B) Draw a neat labelled diagram of female reproductive system.
13. Suggest few environmental friendly practices to reduce the usage of pesticides.
14. Write any four slogans to create awareness among the people about organ donation.
15. "Plastic is harmful to the environment". How do you support this statement ?



SECTION - IV

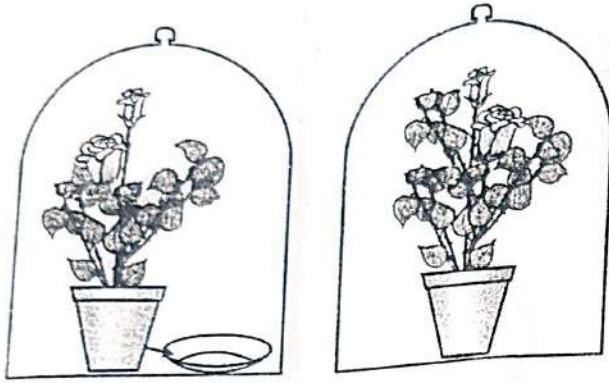
20E

(2×8=16)

- Note : 1) Answer all the questions.  
2) Each question carries 8 marks.  
3) Each question has an internal choice.



16. A)



Observe the above apparatus setup and describe the experiment.



OR

- B) Describe the procedure you followed in your school Laboratory to observe the Spores in Rhizopus.

17. A) "Structure of the Nerve cell is suitable for conducting Information". Analyse this statement.



OR

- B) "Traits may be dominant or Recessive". How would you analyse this statement as per Mendel experiment ?