

# **TS INTER 1ST YEAR**

## **BOTANY 2025**

**Paper - I**  
**(English Version)**

**Time : 3 Hours**

**(10 × 2 = 20)**

### **SECTION - A**

**Note:** (i) Answer **ALL** questions.

(ii) Each question carries **TWO** marks.

(iii) All are very short answer type questions.

1. What is Flora?
2. Who proposed five kingdom classification? How many kingdoms of this classification contain eukaryotes?
3. Why is Mandel considered as the father of genetics?
4. What is meant by Parthenocarpic fruit? How is it useful?
5. What is the morphology of cup like structure in Cyathium? In which family is it found?
6. Name the type of pollination mechanism found in the members of Fabaceae.
7. What are gas vacuoles? State their functions.
8. Give one example for each of amino acids, sugars, nucleotides and fatty acids.
9. At which stage of cell cycle does DNA synthesis occur?
10. Define population and community.



## SECTION - B

(6 × 4 = 24)

**Note:** (i) Answer **ANY SIX** questions.

(ii) Each question carries **FOUR** marks.

(iii) All are short answer type questions.

(iv) Draw labelled diagrams, wherever necessary.

11. Write the role of fungi in our daily life.
12. What is heterospory? Briefly comment on its significance and give two examples.
13. Distinguish between asexual and sexual reproduction. Why is vegetative reproduction also considered as a type of asexual reproduction?
14. Describe the essential organs of solanaceae.
15. Describe the structure and functions of power houses of the cell.
16. Mention the key features of meiosis.
17. What is the difference between lenticels and stomata?
18. List out the anatomical adaptations of hydrophytes.

## SECTION - C

(2 × 8 = 16)

**Note:** (i) Answer **ANY TWO** questions.

(ii) Each question carries **EIGHT** marks.

(iii) All are long answer type questions.

(iv) Draw labelled diagrams, wherever necessary.

19. Explain how stem is modified variously to perform different functions.
  20. Write a brief account on agents of pollination.
  21. Describe the internal structure of a dicot root.
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