

0127

SET -

Total No. of Questions - **33**

Regd.

Total No. of Printed Pages - **3**

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Part - III

BOTANY, Paper - I

(English Version)

MODEL Paper - I

(For the Academic Year 2021-22 only)

Time : 3 Hours

Max. Marks : 60

SECTION - A

10 × 2 = 20

- Note:** (i) Answer **ANY TEN** Questions
(ii) Each Question carries **TWO** marks
(iii) All are very short answer type questions.

1. What does ICBN stand for?
2. How are Viroids different from Viruses?
3. Who is popularly known as father of Botany? What was the book written by him?
4. Name the stored food materials found in Phaeophyceae and Rhodophyceae.
5. Name two diseases caused by Mycoplasmas.
6. What is the morphology of cup like structure in Cyathium? In which family it is found?
7. What is meant by epipetalous condition? Give an example.
8. Define placentation. What type of placentation is found in *Dianthus*?
9. What is 'Omega Taxonomy'?

10. Write the floral formula of *solanum* plant.
11. Give the technical description of ovary in *Solanum nigrum*.
12. What does 'S' refer in a 70S and 80S ribosome ?
13. Starch, Cellulose, Glycogen, Chitin are polysaccharides found among the following. Choose the one appropriate and write against each.
 - a. Cotton fibre _____
 - b. Exoskeleton of cockroach _____
 - c. Liver _____
 - d. Peeled potato _____
14. Define population and community.
15. Hydrophytes show reduced xylem. Why?

SECTION - B

6 × 4 = 24

- Note:**
- (i) Answer **ANY SIX** questions.
 - (ii) Each question carries **FOUR** marks.
 - (iii) All are of short answer type questions.
 - (iv) Draw labelled diagrams wherever necessary
16. Explain binomial nomenclature.
 17. Give the salient features and importance of Chrysophytes.
 18. Explain the scope of Botany taking plant physiology as example.
 19. Give a brief account of prothallus.
 20. Describe any two special types of inflorescences.
 21. Describe the arrangement of floral members in relation to their insertion on thalamus.
 22. 'The flowers of many angiospermic plants which show sepals and petals, differ with respect to the arrangement of sepals and petals in respective whorls'. Explain.
 23. Describe any four types of placentations found in flowering plants.

24. Give an account of floral diagram.
25. Describe the essential organs of Solanaceae.
26. Describe the cell organelle which contains chlorophyll pigments.
27. Describe the structure of nucleus.
28. Enumerate the morphological adaptations of hydrophytes.
29. Give in detail the anatomical adaptations shown by xerophytes.

SECTION - C

2 × 8 = 16

- Note:**
- (i) Answer any **ANY TWO** questions.
 - (ii) Each question carries **EIGHT** marks.
 - (iii) All are long answer type questions.
 - (iv) Draw labelled diagrams wherever necessary
30. With a neat, labelled diagram, describe the parts of a mature angiosperm embryo sac. Mention the role of synergids.
 31. Describe the process of Fertilization in angiosperms.
 32. Justify the statement. "Mitochondria are power houses of the cell".
 33. Describe the T.S of a dicot stem.
