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Total No. of Questions - 26

Total No. of Printed Pages - 2

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No.

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**Part - III**  
**BOTANY, Paper - I**  
**(English Version)**

**MODEL QUESTION PAPER (FOR IPE 2020-21 ONLY)**

**Time : 3 Hours**

**Max. Marks : 60**

**Section - A**

**10×2=20**

**Answer ALL the questions (very short answer type)**

1. What does ICBN stand for?
2. State two economically important uses of heterotrophic bacteria.
3. Why is Mendel considered as the father of Genetic?
4. Why are bryophytes called the amphibians of the plant kingdom?
5. Define placentation. What type of placentation is found in Dianthus?
6. What is Omega Taxonomy?
7. Write the floral formula of solanum plant.
8. What is middle lamella made of ? What is its functional significance?
9. Give one example for each of amino acids, sugars, nucleotides and fatty acids.
10. Define population and community.

**Section - B**

**4×6=24**

**Answer any SIX questions (short answer type)**

11. Explain Binomial Nomenclature.
12. Give a brief account of Dinoflagellates.
13. Differentiate between red algae and brown algae.
14. Describe the four type of placentations found in flowering plants.

Turn Over

15. What is meant by emasculation? When and why does a plant breeder employ this technique?
16. Discuss the various types of pollen tube entry into ovary with the help of diagram.
17. Give an account of floral diagram.
18. Describe the essential organs of solomascar.
19. Write brief account on polysaccharides.
20. Explain prophase I of meiosis.
21. Enumerate the morphological adaptations of xerophytes.
22. Enumerate the morphological adaptations of hydrophytes.

**Section - C**

**2×8=16**

**Answer any FOUR questions (short answer type)**

23. With neat labelled diagram, describe the parts of a mature angiospermic embryo sac mention the role of synergids.
24. Write a brief account on agents of pollination.
25. Describe the structure of the following with the help of labelled diagram.  
(a) Nucleus      (b) Centrosome
26. Describe the T.S. of Dicot root.