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Total No. of Questions - 26  
Total No. of Printed Pages - 2

Regd. 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**

**Note:** Read the following instructions carefully:

(i) Answer **all** the questions of Section - **A**. Answer any **Six** questions out of twelve Section - **B** and answer any **two** questions out of four in Section -**C**.

(ii) In Section - **A** questions from Sr. Nos. **1** to **10** are of “Very Short Answer Type”. Each question carries **two** marks. Every answer may be limited to **5** lines.

Answer **all** the questions at one place in the same order.

(iii) In Section - **B**, question from Sr. Nos. **11** to **22** are of “Short Answer Type”. Each question carries **four** marks. Every answer may be limited to **20** lines.

(iv) In section -**C**, questions from Sr. Nos. **23** to **26** are of “Long Answer Type” Each question carries **eight** marks, Every answer may be limited to **60** lines.

(v) Draw labelled diagrams wherever necessary for questions in Section -**B** and **C**.

**Section - A**

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

**10×2=20**

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?

Turn Over

4. What is meant by epipetalous Condition? Give one Example.
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**

**6×4=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 any four type of placentations found in flowering plants.
15. Describe any two special types of Inflorescence.
16. Discuss the arrangement of floral members in relation to their insertion on thalamus.
17. Give an account of floral diagram.
18. Describe the essential organs of Solanaceae.
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 TWO questions (Long 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.