MODEL QUESTION PAPER PART - III

BOTANY, PAPER-I

(English Version)

Time: 3 hours

Max. Marks : 60

Note: Read the following instructions carefully.

- Answer All the questions of section A, answer any Six out of eight questions in Section - B and answer two out of three questions in Secton - C.
- 2) In Section A Questions from 1 to 10 are "Very Short Answer type" each question carries 2 Marks. Every answer may be limited to 2 or 3 sentences. Answer all these questions at one place in the same order.
- In Section B, Questions from 11 to 18 are of "Short Answer Type.' Each question carries 4 Marks. Every answer may, be limited to 75 words.
- In section C questions from 19 to 21 are of "Long Answer Type". Each question carries 8 Marks. Every answer may be limited to 300 words.

SECTION - A

Answer all the Questions

10 x 2 = 20 Marks

- 1. Which fruit is called as "Pride fruit of India" ? Name the family to which it belongs.
- 2. Name the Institute which is doing research on semi-arid crops. Mention its main objective.
- 3. Give the botanical name of coconut. Name the edible part in it.
- 4. Give a point of difference between adelphous and syngenecious condition of stamens.
- 5. Give any two reasons for considering Asteraceae as the most highly evolved family as dicotyledons.
- 6. What happens to the free floating Pistia plant when its roots have been completely removed.

- 7. A cell contains 18 chromosomes. During the cell division, if spindle fibers are not formed what will be the consequences?
- 8. Why Cyathium inflorescence looks like a flower?
- 9. Mention any two differences between the gynoecium of Malvaceae and that of Fabaceae.
- 10. Suppose there is scarcity of food in a living cell. How will lysosomes respond in the cell?

SECTION - B

Answer any Six questions.

6 x 4 = 24 Marks

- 11. Expand ICBN. Mention three rules of ICBN in naming the plants.
- 12. Write the contributions made by Prof. M.O.P. lyengar.
- 13. Define guttation. Describe the structure which is involved in it with the help of a diagram.
- 14. List out any four ecological adaptations of xerophytes.
- 15. Give four points of differentiation between hesperidium and drupe.
- 16. Explain the cell organelle with labelled diagram in which krebs' cycle takes place?
- 17. Explain the floral characters of solanaceae with the help of a floral diagram.
- 18. Describe the structure of t.RNA with a labelled diagram.

SECTION -C

Answer any Two Questions

2 x 8 = 16 Marks

- 19. Describe the internal structure of dicot root with the help of labelled diagram.
- 20. Write about different types of sub-aerial stem modifications with diagrams.
- 21. Explain the process of fertilization with the help of a neat labelled diagram.

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