

127(N)

(NEW SYLLABUS)

I

Total No. of Questions : 21
Total No. of Printed Pages : 2

Regd.
No.

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Part - III
BOTANY, Paper - I
(English version)

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 *eight* in **Section-B** and answer **ANY TWO** questions out of *three* in **Section-C**.
- (ii) In **Section-A**, questions from Sl. Nos. **1 to 10** are of *Very short answer type*. Each question carries **TWO** marks. Each answer may be limited to 5 lines. Answer all the questions at one place in the same order.
- (iii) In **Section-B**, questions from Sl. Nos. **11 to 18** are of *Short answer type*. Each question carries **FOUR** marks. Every answer may be limited to 20 lines.
- (iv) In **Section-C**, questions from Sl. Nos. **19 to 21** 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

10×2=20

Note :- Answer all the questions. Each answer may be limited to 5 lines.

1. Who discovered the Cell and what was the book written by him ?
2. Which is the largest botanical garden in the World ? Name a few well known botanical gardens in India.
3. What do the terms Phycobiont and Mycobiont signify ?
4. Which organ is modified to trap insects in insectivorous plants ? Give two examples.

5. What are Aggregate fruits ? Give one example.
6. What is Omega Taxonomy ?
7. What is the feature of a Meta-centric chromosome ?
8. Give an example for each of Amino acids, Sugars, Nucleotides and Fatty acids.
9. Which of the four chromatids of a bivalent of prophase-I of Meiosis can involve in Cross-over ?
10. Define Population and Community.

SECTION - B

6×4=24

Note :- Answer ANY SIX questions. Each answer may be limited to 20 lines.

11. Explain Binomial Nomenclature.
12. Explain the scope of Botany taking plant physiology as example.
13. Justify the statement - "Vegetative reproduction is also a type of Asexual reproduction".
14. Give economic importance of plants belonging to Fabaceae.
15. Though, redundantly described as a Resting Phase, Inter Phase does not really involve rest. Comment.
16. Differentiate between Rough Endoplasmic Reticulum (R.E.R.) and Smooth Endoplasmic Reticulum (S.E.R.).
17. What is the difference between Lenticels and Stomata ?
18. Give in detail the anatomical adaptations shown by Xerophytes.

SECTION - C

2×8= 16

Note : Answer ANY TWO questions. Each answer may be limited 60 lines.

19. Define Root. Mention the types of root systems. Explain how root is modified to perform different function.
20. Describe the process of Fertilization in Angiosperms.
21. Describe the internal structure of a Dicot root.