

**127**

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III

Total No. of Questions - 21

Total No. of Printed Pages - 2

Regd.

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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 questions in Section – B and answer any two questions out of three questions in Section – C.
- (ii) In Section – A, questions from Serial 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, questions from Serial 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 Serial 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 Sections – B and C.

SECTION – A

10×2=20**Note : Answer all questions :**

1. What is Flora?
2. Name two diseases caused by Mycoplasmas.
3. Who are Herbalists? What are the books written by them?
4. What is meant by parthenocarpic fruit? How is it useful?
5. Differentiate between apocarpous and syncarpous ovary.
6. Give the technical description of anthers of *Allium cepa*.

7. What is osmosis?
8. What constituents of DNA are linked by glycosidic bond?
9. Which of the phases of cell cycle is of longest duration?
10. Name the type of land plants that can tolerate the salinities of the sea.

SECTION – B

6×4=24

Note :- Answer any six questions :

11. Write the role of Fungi in our daily life.
12. Write a note on economic importance of Algae and Bryophytes.
13. Define -
 - (a) Juvenile phase
 - (b) Reproductive phase
14. Describe the non-essential floral parts of plants belonging to Fabaceae.
15. Though redundantly described as a resting phase, interphase does not really involve rest. Comment.
16. What are nucleosomes? What are they made of?
17. What is the difference between lenticels and stomata?
18. Write a brief account on classification of xerophytes.

SECTION – C

2×8=16

Note :- Answer any two questions :

19. Define root modification. Explain, how root is modified to perform different functions?
20. Describe the process of Fertilization in angiosperms.
21. Describe the internal structure of a dicot root.