|  | ٥ | *,* |
|--|---|-----|
|--|---|-----|

127

II

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

|       |  |   | <br> | · ~~~ | ***** |   | r | [ |   |
|-------|--|---|------|-------|-------|---|---|---|---|
| Regd. |  | 1 |      | ·     |       | Ì |   | 1 | i |
| No.   |  |   |      |       |       |   |   |   |   |



## Part - III BOT NY - 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 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, questions from Sr. 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 Sr. Nos. 19(b) 21 are of "Long answer type". Each question carries EIGHT marks. Every answer may be limited to 100 lines.
- (v) Draw labelled diagrams, wherever necessary for questions in Section B and C.

## **SECTION - A**

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

10x2 = 20

- 1. Why is Mendel considered as the father of Genetics?
- Differentiate between apocarpous and syncarpous ovary.
- Define the terms couplet and lead in taxonomic key.
- 4. How are Viroids different from Viruses ?.
- 5. What is 'Omega Taxonomy'?
- 6. Differentiate actinomorphic from zygpmorphic flower.
- 7. What is referred to as satellite chromosome?.

https://www.apboardonline.com

Hydrophytes show reduced xylem. Why? Explain the Zwitterionic form of an amino acid. Ŧ. An anther has 1200 pollen grains. How many pollen mothe cells must have been there to produce them? SECTION - B Note: Answer any six questions. Each answer may be limited to 20 lines. 6x4=24 11. List the changes observed in angiosperm flower subsequent to pollination and fertilisation. 12. Differentiate between red algae and brown algae. 134. Give a brief account of Dinoflagellates. 14. • What are the characteristics of a prokaryotic cell ? 15. What is the difference between lenticels and stomata?" Give economic importance of plants belonging to Fabaceae. 17. Though redundantly described as a resting phase, interphase does not really involve rest. . Comment. **28.** Listout the anatomical adaptations of hydrophytes. SECTION - C Note: Answer any two questions. Each answer may be limited to 60 lines. 2x8=16 Describe the internal structure of a dicot root. With a neat, labelled diagram, describe the parts of a mature angiosperm embryosac. Mention the role of synergids. Explain how stem is modified variously to perform different functions. •00a•