



127

I

Total No. of Questions : 21

Total No. of Printed Pages : 2

Reg. 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 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** 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** 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 **Section – C**.

SECTION – A**(10×2=20)**

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

1. What does ICBN stands for ?
2. How Viroids are different from Viruses ?
3. Why is Mendel considered as Father of Genetics ?
4. What is the morphology of cup like structure in Cyathium ? In which family it is found ?
5. Differentiate between Apocarpous and Syncarpous ovary.
6. What is Omega Taxonomy ? 
7. Mention a single membrane bound organelle which is rich in hydrolytic enzymes.





8. Give ^{one} an example for each of amino acids, sugars, nucleotides and fatty acids.
9. An anther has 1200 pollen grains, how many pollen mother cells must have been there to produce them ?
10. Define population and community.

SECTION - B

(6×4=24)

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

11. Give a brief account of Dinoflagellates. 
12. Differentiate between Red algae and Brown algae.
13. List out three strategies that a bisexual chasmogamous flower can evolve to prevent self pollination (autogamy).
14. Describe about essential floral parts of plants belonging to Family : Liliaceae.
15. Differentiate between Rough Endoplasmic Reticulum (RER) and Smooth Endoplasmic Reticulum (SER).
16. Nucleic acids exhibits secondary structure – Justify with examples.
17. Though redundantly described as a resting phase. Interphase does not really involve rest – Comment. 
18. List out anatomical adaptation of Hydrophytes.

SECTION - C

(2×8=16)

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

19. Define Root. Explain how root is modified to perform different functions.
Root modification
20. Describe the process of fertilisation in angiosperms.
Describe
21. Explain the T.S. of Dicot stem.



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- (iv) In **Section – C**, questions from Sr. Nos. **19 to 21** are of “Long answer type”. **Each** question carries **EIGHT** marks. Every answer may be limited to **60** lines.
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SECTION – A

(10×2=20)

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

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