

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BPF-2177

M.Sc. (Final) Examination, 2022

BOTANY

Paper - V

(Angiosperm, Taxonomy, Morphology, Anatomy and Embryology)

Time : 3 Hours]

[Maximum Marks : 75

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section-B

(Marks : 5 × 5 = 25)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **5** marks.

Section-C

(Marks : 10 × 3 = 30)

Note :- Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

Section-A

1. (i) Write any *two* forest floras.
- (ii) What is Self-incompatibility ?

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- (iii) Define Icones.
- (iv) What do you mean by Double Fertilization ?
- (v) What is Geitonogamy ?
- (vi) What do you mean by Nuclear Endosperm ?
- (vii) Write the sharing characters of Rosales.
- (viii) What are Taxonomic Keys ?
- (ix) Write the functions of Tapetum.
- (x) What is Cleistogamous flowers ?

Section-B

2. Write a detailed note on B.S.I. organization and its role.

Or

Write a note on Bentham and Hooker classification system with merits and demerits.

3. Explain the phylogeny of Amentiferae.

Or

Write a detailed note on parasitic and insectivorous families.

4. Explain the origin and evolution of flower.

Or

Describe the anatomy of monocotyledonous seeds.

5. Explain the development of male gametophyte with suitable diagrams.

Or

Write a note on structure and histochemical details of style and stigma.

6. Write a detailed note on polyembryony.

Or

Describe the types and importance of apomixis.

Section–C

7. Discuss the role of other branches of botany in plant taxonomy.
8. Write a detailed note on ultrastructure and function of phloem.
9. Write short notes on the following :
 - (a) Megasporogenesis
 - (b) Phylogeny of angiosperm
10. Describe a detailed account of evolution and types of placentation with suitable diagrams.
11. Write short notes on the following :
 - (a) ICBN rules
 - (b) In vitro pollination and its uses