

M.Sc. (Previous) Examination, 2024**BOTANY****Fourth Paper****(Taxonomy & Diversity of Seed Plants)****Time Allowed: Three Hours****Maximum Marks: 100**

Each theory paper will have 9 questions, out of which a student has to attempt 5 questions and the question no. 1 will be compulsory. The question no. 1 will carry 20 marks and will be of short type of questions with a limit of 20 words.

No supplementary answer book will be given to any candidate. Hence the candidates should write the answer precisely in the main answer book only.

All the parts of one question should be answered at one place in the answer book. One complete question should not be answered at different place in the answer book.

PART-A

1. Short answer type questions - [10×2=20]
- (a) Largest ovule occurs in.....
 - (b) Define the Icons.
 - (c) What is APG system?
 - (d) Write the name of most advanced Gymnosperm.
 - (e) What is OUT?
 - (f) What is the new name of *Palmea* Family?
 - (g) Define the Palynology.
 - (h) Write the name of primitive angiosperms.
 - (i) What is Isotype?
 - (j) What is synonym?

PART-B**UNIT-I**

2. Write short notes on: [10+10=20]
- (a) Evolution of Gymnosperms
 - (b) *Gnetales*

OR

Describe the general account on structure and reproduction of *Cycas*.

[20]

UNIT-II

3. Write a detailed note on the Thorne system of angiosperm classification. [20]

OR

Write short notes on: [10+10=20]

- (a) Omega taxonomy
- (b) Hierarchy

UNIT-III

4. Write a detailed note on the Numerical taxonomy. [20]

OR

Write short notes on: [10+10=20]

- (a) Herbarium equipment
- (b) Flora

UNIT-IV

5. Write a detailed note on the Cytological evidence in biosystematics studies. [20]

OR

Write short notes on: [10+10=20]

- (a) Ancestor of Angiosperm
 - (b) Time and place of origin of Angiosperm
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