

Roll No. : .....

Total No. of Questions : 11 ]

[ Total No. of Printed Pages : 3

# **BPMS-502**

**M.Sc. (Previous) Examination, 2023**

**BOTANY**

Paper - II

**(Bryology, Pteridology and Gymnosperms)**

*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) Define Calyptra with function.
- (ii) Write the types of Rhizoids found in Bryophytes.

**BRI-565**

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**BPMS-502** P.T.O.

- (iii) Write the popular name of Sphagnum.
- (iv) Name *two* Pteridophytes showing secondary growth.
- (v) Define Amphiphloic Siphonostele with example.
- (vi) Define Cormophyte.
- (vii) Name *two* heterosporous Pteridophytes.
- (viii) Name the gymnosperm found growing in natural habitat in Rajasthan.
- (ix) Write the function of Transfusion Tissue.
- (x) Name the gymnosperms from which Chilgoza is obtained.

#### **Section–B**

2. Write a detailed note on General characters of Bryophytes.

*Or*

Write a detailed note on Evolution of Sporophyte in Bryophytes.

3. Write a short note on Soral evolution in Pteridophytes.

*Or*

Write a short note on Apomictic Life Cycle.

4. Explain Life-cycle of Salvinia.

*Or*

Explain Morphology and Anatomy of Rhynia.

5. Write a detailed note on salient features of Gymnosperms.

*Or*

Write a general account of Ginkgo.

6. Write a note on distribution of living and fossil Gymnosperms in India.

*Or*

Write a general account of Gnetum.

**Section–C**

7. Write a detailed note on classification of Bryophytes with examples.
8. Write in detail the Economic Importance of Bryophytes.
9. Write a detailed note on classification of Pteridophytes with examples.
10. Briefly describe life cycle of Isoetes.
11. Explain the morphology and Internal structure of Taxus in detail. Draw life-cycle also.