

M.Sc.(Botany) CBCS Pattern Semester-I  
**PSCBOTT02 - Bryophytes & Pteridophytes Paper-II**

P. Pages : 1

Time : Three Hours



**GUG/W/23/11151**

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.  
2. Draw diagram wherever necessary and illustrate your answers with suitable examples.

1. Describe in detail general characters and regeneration in bryophytes with suitable examples. **16**

**OR**

Write note on:

- a) Contribution of Prof. Shiv Ram Kashyap & Prof. S. K Pande. **8**  
b) Fossil Bryophytes. **8**

2. Give an account of Hepaticopsida with suitable example. **16**

**OR**

Write note on:

- a) General account on Sphagnales. **8**  
b) Sporophyte of Anthoceros. **8**

3. Give general account of Lycopsidea with suitable example. **16**

**OR**

Write note on:

- a) Stellar system in pteridophytes. **8**  
b) Apospory and apogamy. **8**

4. What are the characteristics of Ophioglossales? Explain in detail it's life cycle. **16**

**OR**

Write note on:

- a) Morphological characters of Equisetum. **8**  
b) Significance of Progymnosperms. **8**

5. Write short notes on:

- a) Ecology of Bryophytes. **4**  
b) Capsule of Polytrichum. **4**  
c) Heterospory and seed habit. **4**  
d) Sporocarp of Marsilea. **4**

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