

Total No. of Questions :8]

SEAT No. :

[Total No. of Pages :2

**P3236**

**[5032] - 101**

**MSc. - I**

**BOTANY**

**BO - 1.1 : Cryptogamic Botany (Part - I)**

**(Bryophytes and Pteridophytes)**

**(2013 Pattern) (Credit System) (Semester - I)**

*Time : 3 Hours]*

*[Max. Marks :50*

*Instructions to the candidates:*

- 1) *Answer any five questions.*
- 2) *All questions carry equal marks.*
- 3) *Draw neat labelled diagrams wherever necessary.*

**Q1) a) Give affinities of Bryophytes with pteridophytes. [4]**

b) Comment on Economic importance of Bryophytes. [4]

c) Mention classification of Bryophyta upto family level according to G.M.Smith. [2]

**Q2) a) Write in brief reduction theory of sporophyte evolution in Bryophytes.[4]**

b) Describe morphogenesis and culture of Bryophytes in brief. [4]

c) Comment on Fossil Bryophytes. [2]

**Q3) a) Describe morphology of Gametophyte of sphaerocarpaceae. [4]**

b) Explain sporophyte in Calobryales. [4]

c) Write distinguishing Characters of Marchantiales. [2]

***P.T.O.***

- Q4)** a) Describe morphology and anatomy of gametophyte in Anthocerotates. [4]  
b) Write morphology and anatomy as Sporophyte of Andreales. [4]  
c) Comment on distribution of funariales. [2]
- Q5)** a) Explain Apoqamy and Apospory in pteridophytes. [5]  
b) Comment on Indian pteridology. [5]
- Q6)** a) Write a note on Lepidodendron. [5]  
b) Explain Cheirostrobos. [5]
- Q7)** a) Write distinguishing characters and distribution of psilopsida. [5]  
b) Describe morphology of Isoetales. [5]
- Q8)** a) Give distinguishing characters of filicales and Ophioglossales. [5]  
b) Describe spore producing organ in Equisetales. [5]

