

Total No. of Questions :8]

SEAT No. :

P2224

[4932]-11

[Total No. of Pages :2

M.Sc. I (Under Faculty of Science)

BOTANY

**BO-1.1: Systematics of Non Vascular plants
(2008 Pattern) (Semester - I)**

Time : 3 Hours]

[Max. Marks :80

Instructions to the candidates:

- 1) *Answer any five questions, taking at least two questions from each section.*
- 2) *Answer to the two sections should be written in separate answer books.*
- 3) *All questions carry equal marks.*
- 4) *Neat diagrams must be drawn wherever necessary.*

SECTION-I

Q1) Write the position of algae in eight kingdom system and give classification of algae as per Fritsch. **[16]**

Q2) Give an outline classification of bryophytes with reasons proposed by G.M. Smith. **[16]**

Q3) Write short answers of the following: **[16]**

- a) Write the differences between structural systematics and biochemical systematics.
- b) Comment on the algal habitats.

Q4) Write short notes on any two of the following: **[16]**

- a) Cell organisation in cyanophyta.
- b) Sexual reproduction in Rhodophyta.
- c) Gametophytes of Jungermanniales.

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SECTION-II

Q5) Give an account of Deuteromycotina with reference to reproductive structures. **[16]**

Q6) Give an outline of classification of fungi as per Alexopoulos, Mims and Blackwell. **[16]**

Q7) Write short answers of the following: **[16]**

- a) Briefly write on: Describe Necrotrophs and Symbiotrophs.
- b) Give present status of fungi.

Q8) Write short notes on any two of the following: **[16]**

- a) Fungal sex hormones.
- b) Habitats of Bryophytes.
- c) Takakiales.

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