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Exam. Code : 210002

Subject Code: 4219

M.Sc. (Botany) 2nd Semester

PTERIDOLOGY

Paper: BOTC-528

Time Allowed—3 Hours [Maximum Marks—50

Note: — Attempt any five questions selecting at least one question from each section. Draw neatly labelled diagrams wherever required. Marks for each question are indicated in the question paper.

SECTION-A

- What is Telome theory? Discuss the elementary 1. structures and processes proposed in the theory. 10
- Write illustrated notes on the following: 2.
 - (a) Origin of land flora
 - (b) Homologous theory.

 $5 \times 2 = 10$

SECTION-B

- Classify Pteridophytes upto order level giving diagnostic 3. characters of various taxa included in your syllabus. 10
- Write illustrated notes on the following:
 - (a) Organography of Pteridophytes
 - (b) Rhynia sp.

 $5 \times 2 = 10$

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(Contd.)

SECTION—C

- 5. Giving examples from your syllabus, justify the statement that prothallus has followed a trend of simplification in Pteridophytes.
- 6. Write illustrated notes on the following:
- (a) Soral evolution in ferns
 - (b) Ophioglossum.

 $5 \times 2 = 10$

SECTION—D

- 7. Elucidate the role of polyploidy and hybridization as related phenomenon in speciation among ferns. 10
- 8. Write illustrated notes on the following:
 - (a) Apospory
 - (b) Ferns in phytoremediation.

 $5 \times 2 = 10$