

Exam. Code : 210002

Subject Code : 5440

M.Sc. Botany 2nd Semester

BRYOLOGY

Paper-BOTC-527

Time Allowed—3 Hours]

[Maximum Marks—50

SECTION-A

Very short questions.

1. Total **EIGHT** questions. All are compulsory and each carries 1 mark.

(i) Who is the father of bryology ?

(ii) Describe thallus.

(iii) What are elaters ?

(iv) What are mosses ?

(v) Give two general features of liverworts.

(vi) Explain peristomatal teeth.

(vii) Describe diplontic life cycle.

(viii) Define protonema.

1×8=8

SECTION-B

Short questions.

2. Attempt any **SEVEN** questions from the following **TEN** questions. Each carries 3 marks.

(i) Explain briefly life cycle of Porella.

(ii) Describe general features of Andrea.

- (iii) Give diagrammatical representation of life cycle of Anthoceros.
- (iv) Describe the morphological features of Funaria.
- (v) Explain origin of land habit of liverworts.
- (vi) Describe the thallus structure of Riccia.
- (vii) Describe origin of Bryophytes with reference to fossil records.
- (viii) Give distribution of bryophytes.
- (ix) What is economic importance of bryophytes ?
- (x) What are means of spore dispersal in bryophytes ?

3×7=21

SECTION-C

Long questions.

3. Attempt any **THREE** questions from the following **FIVE** questions and each carries 7 marks.
- (i) Contrast primitive and advanced characters of bryophytes.
 - (ii) Give life cycle of Marchantia with diagrams.
 - (iii) Explain evolution of gametophyte and sporogonium in liverworts by taking any one example.
 - (iv) What are the methods to conserve bryophytes at national level ?
 - (v) Explain characters of endohydric, myxohydric and ectohydric bryophytes.

7×3=21