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B—70—2019

FACULTY OF SCIENCE

B.Sc. (First Year) (Second Semester) EXAMINATION

MARCH/APRIL 2019

(CBCS/CGPA Pattern)

BOTANY

Paper III

(Diversity of Cryptogams)

(MCQ & Theory)

(Wednesday, 27-3-2019)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

N.B. :— (i) Attempt All questions.

(ii) All questions carry equal marks.

(iii) Use separate answer-sheet for MCQ (OMR sheet) and descriptive questions.

(iv) Draw a well-labelled diagram wherever necessary.

MCQ

1. Choose the *correct* answers for the following questions : 10

(i) Three types of cells are present in the thallus of

(a) Ectocarpus

(b) Batrachospermum

(c) Oedogonium

(d) Chara

(ii) Cystocarp occurs in

(a) Chara

(b) Batrachospermum

(c) Ectocarpus

(d) Oedogonium

P.T.O.

- (iii) Globule is the male sex organ of
- (a) Chara (b) Batrachospermum
(c) Oedogonium (d) Ectocarpus
- (iv) Ectocarpus belongs to class
- (a) Rhodophyceae (b) Chlorophyceae
(c) Xanthophyceae (d) Pheophyceae
- (v) Unilocular sporangia are found in
- (a) Chara (b) Ectocarpus
(c) Oedogonium (d) Batrachospermum
- (vi) Peristomal teeth are present in the capsule of
- (a) Equisetum (b) Marchantia
(c) Funaria (d) Riccia
- (vii) Photosynthetic region and storage region are present in thallus of
- (a) Funaria (b) Marchantia
(c) Anthoceros (d) Riccia
- (viii) Vascular and carinal canals are seen in the stem of
- (a) Equisetum (b) Lycopodium
(c) Psilotum (d) Marsilea
- (ix) Equisetum belongs to class
- (a) Pteropsida (b) Sphenopsida
(c) Lycopsidea (d) Psilopsida
- (x) Circinnate veneration in leaves is a characteristic of
- (a) Lycopodium (b) Equisetum
(c) Psilotum (d) Marsilea

Theory

2. Describe asexual reproduction in Ectocarpus. 10

Or

Explain in brief :

- (a) Thallus structure of Batrachospermum 5

- (b) General characters of algae. 5

3. Describe external and internal structure of gametophyte of Funaria. 10

Or

Write in short :

- (a) Antheridium of Riccia 5

- (b) General characters of Bryophytes. 5

4. Describe internal structure of internode of Equisetum rhizome. 10

Or

Describe in brief :

- (a) General characters of Pteridophytes 5

- (b) External structure of sporophyte of Marsilea. 5