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BF—57—2016

FACULTY OF SCIENCE

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

OCTOBER/NOVEMBER, 2016

BOTANY

Paper III

(Diversity of Cryptogams)

(MCQ + Theory)

(Tuesday, 18-10-2016)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—10+30=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 diagrams wherever necessary.

MCQ

1. Choose the correct answers of the following questions. 10

(1) Globule is found in

(A) Chara

(B) Ectocarpus

(C) Oedogonium

(D) Batrachospermum

(2) Which of the following is marine alga ?

(A) Batrachospermum

(B) Chara

(C) Ectocarpus

(D) Oedogonium

(3) Basal cell of oedogonium is called as

(A) Intercalary cell

(B) Hold fast

(C) Apical cell

(D) Cap cell

P.T.O.

- (4) Glomerules are present in
(A) Chara (B) Ectocarpus
(C) Oedogonium (D) Batrachospermum
- (5) Smooth walled and tuberculate rhizoids are present in
(A) Riccia (B) Anthoceros
(C) Funaria (D) None of these
- (6) Sexual reproduction in Bryophytes is
(A) Isogamous (B) Oogamous
(C) Anisogamous (D) All of these
- (7) Sporophyte of Funaria consists of
(A) Foot and Seta (B) Foot and Capsule
(C) Foot, Seta and Capsule (D) Seta and Capsule
- (8) Vascular and carinal canals are seen in the stem of
(A) Equisetum (B) Psilotum
(C) Marsilea (D) Lycopodium
- (9) 'Horse tail' is a common name of
(A) Lycopodium (B) Equisetum
(C) Marsilea (D) Selaginella
- (10) Heterosporous condition is found in
(A) Psilotum (B) Lycopodium
(C) Marsilea (D) Equisetum

Theory

2. Describe the unilocular and pleurilocular sporangia in Ectocarpus. 10

Or

Explain in brief :

- (a) Nucule in Chara. 5
(b) Economic importance of Algae. 5

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

Or

Write in short :

- (a) Internal structure of Riccia thallus. 5
- (b) Female sex organ in Riccia. 5
4. Give the systematic position and describe the external structure of sporophyte of Marsilea. 10

Or

Describe in brief :

- (a) Structure of spore in equisetum. 5
- (b) Classification of pteridophytes. 5