

This question paper contains 3 printed pages]

AO—54—2018

FACULTY OF SCIENCE

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

MARCH/APRIL, 2018

(CBCS/CGPA Pattern)

BOTANY

Paper III

(Diversity of Cryptogams)

(MCQ + Theory)

(Saturday, 24-3-2018)

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 of the following questions : 10

(1) F. E. Fritsch has classified the algae into classes.

(a) 9 (b) 7

(c) 11 (d) 5

(2) Batrachospermum belongs to class

(a) Chlorophyceae (b) Xanthophyceae

(c) Pheophyceae (d) Rhodophyceae

P.T.O.

- (3) Unilocular sporangia are present in
- (a) Ectocarpus (b) Oedogonium
(c) Chara (d) Batrachospermum
- (4) Hold fast is present in
- (a) Batrachospermum (b) Oedogonium
(c) Ectocarpus (d) Chara
- (5) N. S. Parihar classified Bryophytes into classes.
- (a) 3 (b) 11
(c) 5 (d) 7
- (6) Peristomal teeth are found in the capsule of
- (a) Riccia (b) Anthoceros
(c) Funaria (d) None of these
- (7) Thalloid gametophyte occurs in
- (a) Funaria (b) Riccia
(c) Polytrichum (d) None of these
- (8) Sporophytic generation is dominant in
- (a) Bryophytes (b) Algae
(c) Pteridophytes (d) None of these
- (9) Elaters are present on the spores of
- (a) Equisetum (b) Marsilea
(c) Lycopodium (d) Psilotum
- (10) Heterosporous condition is found in
- (a) Lycopodium (b) Marsilea
(c) Psilotum (d) Equisetum

(Theory)

2. Give systematic position and describe the thallus structure of Ectocarpus. 10

Or

Explain in brief :

- (a) Asexual reproduction in Oedogonium 5
 (b) Economic importance of Algae 5
3. Describe external and internal structure of Riccia thallus. 10

Or

Write in short :

- (a) General characters of Bryophytes 5
 (b) Antheridium of Funaria 5
4. Describe external features of Sporophyte of Equisetum. 10

Or

Describe in brief :

- (a) Megaspore of Marsilea 5
 (b) General characters of Pteridophytes 5