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W—59—2018

FACULTY OF SCIENCE

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

OCTOBER/NOVEMBER, 2018

(CBCS/CGPA Pattern)

BOTANY

Paper-III

(Diversity of Cryptogams)

(MCQ+Theory)

(Tuesday, 16-10-2018)

Time : 10.00 a.m. to 12.00 noon

Time—Two 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) Macrandrous and nannandrous type of sexual reproduction occurs in

(a) Chara

(b) Oedogonium

(c) Batrachospermum

(d) Ectocarpus

(ii) Chantransia stage is found in

(a) Batrachospermum

(b) Chara

(c) Ectocarpus

(d) Oedogonium

P.T.O.

- (iii) Corona cells are present in
- | | |
|---------------------|----------------|
| (a) Batrachospermum | (b) Oedogonium |
| (c) Ectocarpus | (d) Chara |
- (iv) Batrachospermum belongs to Class
- | | |
|------------------|-------------------|
| (a) Rhodophyceae | (b) Xanthophyceae |
| (c) Pheophyceae | (d) Chlorophyceae |
- (v) Phycocyanin and phycoerythrin pigments are found in the class
- | | |
|-------------------|-------------------|
| (a) Chlorophyceae | (b) Rhodophyceae |
| (c) Pheophyceae | (d) Xanthophyceae |
- (vi) In Bryophyta, leafy gametophyte is present in
- | | |
|----------------|----------------|
| (a) Riccia | (b) Funaria |
| (c) Marchantia | (d) Anthoceros |
- (vii) The number of peristomal teeth in the capsule of funaria is
- | | |
|--------|--------|
| (a) 32 | (b) 28 |
| (c) 18 | (d) 26 |
- (viii) Riccia belongs to class
- | | |
|----------------------|-------------------|
| (a) Anthocerotopsida | (b) Hepaticopsida |
| (c) Lycopsida | (d) Bryopsida |
- (ix) Amphiphloic siphonostele is found in the rhizome of
- | | |
|----------------|---------------|
| (a) Lycopodium | (b) Equisetum |
| (c) Psilotum | (d) Marsilea |
- (x) Elaters are present on the spores of :
- | | |
|---------------|----------------|
| (a) Equisetum | (b) Lycopodium |
| (c) Marsilea | (d) Psilotum |

Theory

2. Give systematic position, occurrence and describe thallus structure of *Batrachospermum*. 10

Or

Explain in brief :

- (a) Globule in *Chara* 5
- (b) Nannandrium in *Oedogonium*. 5
3. Describe internal structure of capsule of *Funaria*. 10

Or

Write in short :

- (a) General characters of Bryophytes. 5
- (b) Archegonium of *Riccia*. 5
4. Give systematic position and explain the external structure of sporophyte of *Equisetum*. 10

Or

Describe in brief :

- (a) Antheridium of *Marsilea*. 5
- (b) General characters of Pteridophytes. 5