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V—55—2017

FACULTY OF SCIENCE

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

OCTOBER/NOVEMBER, 2017

(CBCS/CGPA Pattern)

BOTANY

Paper III

(Diversity of Cryptogams)

(MCQ & Theory)

(Friday, 10-11-2017)

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) The study of algae is called :

(a) Phycology

(b) Bacteriology

(c) Virology

(d) Mycology

(ii) Carpogonium is female sex organ of :

(a) Oedogonium

(b) Ectocarpus

(c) Batrachospermum

(d) Chara

(iii) Globule of Chara is sex organ.

(a) Female

(b) Male

(c) Both (a) and (b)

(d) None of these

P.T.O.

- (iv) Unilocular and pleurilocular sporangia occur in :
- (a) Chara (b) Oedogonium
- (c) Batrachospermum (d) Ectocarpus
- (v) Gametophytic generation is dominant in :
- (a) Pteridophytes (b) Bryophytes
- (c) Angiosperms (d) None of these
- (vi) Smooth-walled and tuberculate rhizoids are found in :
- (a) Funaria (b) Equisetum
- (c) Marsilea (d) Riccia
- (vii) Sporophyte of Funaria consists of :
- (a) Foot (b) Seta
- (c) Capsule (d) All of these
- (viii) Circinnate veneration in leaves is a characteristics of :
- (a) Lycopodium (b) Equisetum
- (c) Marsilea (d) Psilotum
- (ix) In Equisetum, the shoot with strobilus is known as :
- (a) Neutral shoot (b) Fertile shoot
- (c) Sterile shoot (d) None of these
- (x) Sporocarp is present in :
- (a) Marsilea (b) Equisetum
- (c) Lycopodium (d) Psilotum

Theory

2. Give systematic position and describe thallus structure of Oedogonium. 10

Or

Explain in brief :

- (a) Nucule in Chara 5
- (b) Glomerule in Batrachospermum. 5

3. Describe sexual reproduction in Riccia. 10

Or

Write in short :

(a) External morphology of leafy gametophyte of Funaria 5

(b) General characters of Bryophytes. 5

4. Give systematic position and describe external structure of sporophyte of Marsilea. 10

Or

Describe in brief :

(a) Classification of Pteridophytes 5

(b) Structure of Spore of Equisetum. 5