

(i) Printed Pages : 4] Roll No.

(ii) Questions : 9] Sub. Code :

0	0	5	2
---	---	---	---

Exam. Code :

0	0	0	1
---	---	---	---

**B.A./B.Sc. (General) 1st Semester
Examination**

1127

BOTANY

Paper : A Plant Diversity-I

Time : 3 Hours]

[Max. Marks : 36

- Note :-** (i) Attempt *five* questions in all.
(ii) Question No. 1 is compulsory.
(iii) Attempt four questions more, selecting *one* from each Unit.
(iv) Draw neat and well labelled diagrams supporting your answer.

1. (A) Fill in the blanks :

- (i) White rust of crucifers is caused by
- (ii) The whorls of lateral branches of limited growth in *Batrachospermum* are called

(iii) The fungal component of lichen is called

(iv) Fruiting bodies formed during asexual reproduction in *Colletotrichum* are called

(v) In many bacteria, the plasma membrane give rise to infoldings called

(vi) is a unicellular ascomycetes. 6×1=6

(B) Multiple choice questions :

(i) Which of the following is an edible fungus ?

(a) *Albugo*

(b) *Agaricus*

(c) *Puccinia*

(d) *Ustilago*

(ii) Which of the following spores of *Puccinia* are seen on Barberry leaf ?

(a) Basidiospores

(b) Pycniospores

(c) Telutospores

(d) Uredospores

(iii) *Oscillatoria* reproduces vegetatively by :

(a) Hormogonia

- (b) Heterocysts
- (c) Akinetes
- (d) All of these
- (iv) Reserve food of brown algae is :
 - (a) Starch
 - (b) Glycogen
 - (c) Laminarian
 - (d) Protein
- (v) Sea weeds mainly belong to :
 - (a) Chlorophyceae
 - (b) Phaeophyceae
 - (c) Rhodophyceae
 - (d) Xanthophyceae
- (vi) Wart like swellings on upper side of lichen thallus having algal cells mixed with fungal hyphae is called :
 - (a) Cephalodia
 - (b) Cyphellae
 - (c) Soredia
 - (d) Isidia

6×1=6

Unit-I

2. Describe briefly sexual reproduction in *Cladophora* with the help of suitable diagrams. 6
3. Write notes on any *two* of the following :
 - (a) Coenobium of *Volvox*
 - (b) Asexual reproduction in *Vancheria*
 - (c) Bacterial cell structure
 - (d) Vegetative structure of *Oscillatoria* 3,3

Unit-II

4. Describe post fertilization changes in the *Batrachospermum*. 6
5. Write notes on any *two* of the following :
 - (a) T. S. thallus of *Dictyota*
 - (b) Algae as food
 - (c) Asexual reproduction in *Dictyota* 3,3

Unit-III

6. (a) Describe asexual reproduction in *Rhizopus*.
(b) Give symptoms of white rust of crucifers. 3,3
7. Give diagrammatic representation of three different type of life cycles in yeast giving suitable examples. 6

Unit-IV

8. Write notes on any *two* of the following :
 - (a) Uredospores in *Puccinia*
 - (b) Asexual reproduction in *Colletotrichum*
 - (c) T.S. of lichen thallus
 - (d) Sexual reproduction in *Ustilago* 3,3
9. Describe in detail the structure of mature basidiocarp in *Agaricus*. 6