

(i) Printed Pages: 3

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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

(2122)

BOTANY

(Plant Diversity—I)

Paper—A

Time Allowed : Three Hours]

[Maximum Marks : 36

Note :—Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit. Draw neat and well labelled diagrams wherever necessary.

I. (A) Fill in the blanks :

(i) Common name of *Volvox* is _____.

(ii) The algal component of lichen is called _____.

(iii) *Gongrosira* stage of *Vaucheria* is made up of _____.

(iv) _____ causes red rot of sugarcane.

(v) Infolding of cell membrane of Bacteria which help in respiration and DNA separation is called _____.

(vi) Food reserve of *Dictyota* is in form of _____.

6×1

(B) Multiple Choice Questions :

- (i) The cell wall of *Oscillatoria* contains :
(a) Proteins (b) Fats
(c) Murein (d) Starch
- (ii) Which type of sexual reproduction is present in *Volvox* ?
(a) Isogamous (b) Anisogamous
(c) Oogamous (d) All of these
- (iii) Chlorophyll is reticulate in :
(a) *Vaucheria* (b) *Cladophora*
(c) *Volvox* (d) *Dictyota*
- (iv) Common name of *Vaucheria* is :
(a) Rolling alga (b) Frog spawn alga
(c) Green felt (d) Diatoms
- (v) The following class of fungi lacks sexual reproduction :
(a) *Phycomycetes* (b) *Zygomycetes*
(c) *Ascomycetes* (d) *Deuteromycetes*
- (vi) Dikaryotic mycelium in *Agaricus* is formed by :
(a) Karyogamy (b) Meiosis
(c) Plasmogamy (d) None 6×1

UNIT-I

- II. Draw graphic life cycle of *Cladophora*. 6
- III. Write short notes on any two of the following :
(i) Write note on coenobium of *Volvox*.
(ii) Draw well labelled diagram of a Bacterial cell.
(iii) Describe plant body of *Oscillatoria*. 3,3

UNIT-II

- IV. Draw graphical life cycle of Dictyota. 6
- V. Write short notes on any *two* of the following :
- (i) Use of algae as food.
 - (ii) Cystocarp of Batrachospermum
 - (iii) Juvenile stage of Batrachospermum. 3,3

UNIT-III

- VI. Describe life cycle of *Sacchromyces cerevisiae*. 6
- VII. (a) Sexual Reproduction in Albugo
- (b) Asexual Reproduction in *Rhizopus*. 3,3

UNIT-IV

- VIII. Describe life cycle of *Ustilago tritici*. 6
- IX. (a) Draw V.S. of Gill of *Agaricus*.
- (b) Draw V.S. of Barberry leaf showing mature pyrenidium of *Puccinia*. 3,3