No. of Printed Pages : 3

Sem-I-Bot-CC-I
(Reg&Back)

2020-21

Time - 3 hours

Full Marks - 60

*Answer **all groups** as per instructions.*
Figures in the right hand margin indicate marks.
Draw labelled diagrams wherever necessary.

GROUP – A

1. Fill in the blanks or express in technical term as required. [1 × 8

(a) Viruses without a well defined three dimensional shape are called _____.

(b) Bacteria increase soil fertility through _____.

(c) Palmella stage is seen in _____.

(d) Macrandrous type of species are found in _____.

(e) During sexual reproduction in algae gametes are produced in separate structures called —

(f) The viruses which are parasites on bacteria are called —

(g) The plant body of Coleochaete possesses cytoplasmic out-growths called —

P.T.O.

(h) In Polysiphonia, the female plant bears the female sex organs called —

GROUP – B

2. Write notes on any eight of the following within two to three sentences each. [1½ × 8

(a) Viroids

(b) Bacteriophage

(c) Mycoplasma

(d) Heterocyst

(e) Eye spot

(f) F.E. Fritsch

(g) Coenobium

(h) Nucule

(i) Aplanospores of Vaucheria

(j) Trichoblasts

GROUP – C

3. Write notes on any eight of the following within 75 words each. [2 × 8

(a) TMV

(b) Sexual reproduction in Algae.

(c) Spheroplasts

(d) Cell structure of Oedogonium

(e) Asexual reproduction in Coleochaete

(f) Sexual reproduction in Vaucheria

(g) Distinguishing features of Phaeophyta

(h) Conceptacles of Fucus

(i) Carposporophyte

(j) Conjugation in Bacteria

GROUP – D

*Answer **any four** questions within 500 words each.*

4. Describe the process of multiplication of Bacteriophage. [6

5. Describe the cell structure and nutrition in Bacteria. [6

6. Discuss the various economic uses of Algae. [6

7. Describe the life cycle of Chlamydomonas. [6

8. Give an account of the alternation of generation in Ectocarpus. [6

9. Discuss the life history of Fucus. [6

10. Give an account of the thallus organisation in Polysiphonia. [6