No. of Printed Pages : 3

Sem-I-Bot-GE-A_1
(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 blanks. (all) [1 × 8

(a) Chemically each virus is composed of _____ and _____.

(b) Bacteria are specialised _____ organisms.

(c) Bacteria decompose the bodies of dead organisms and other organic wastes. This process is called _____.

(d) _____ are called pioneer plants.

(e) _____ is essential for Fertilisation in Moss.

(f) _____ is popularly known as black bread mould.

(g) _____ are seedless vascular plants.

(h) Coralloid roots of Cycas have a _____ association with blue green alga like Nostoc and Anabaena.

P.T.O.

GROUP – B

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

(a) Bacteriophage

(b) Mesosome

(c) Pyrenoid

(d) Conceptacle

(e) Fruticose Lichen

(f) Protonema

(g) Coralloid root of Cycas

(h) Apogamy

(i) Pinus Needle

(j) Conifers

GROUP – C

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

(a) TMV

(b) Heterocyst

(c) Cell structure of Chlamydomonas

(d) Conjugation in Bacteria

(e) Rhynia

(f) Lichen Apothecium

(g) Marchantia Gemma cup

(h) Equisetum cone

(i) Cycas Microsporophyll

(j) Alternation of Generation

GROUP – D

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

4. Describe the economic importance of Virus. [6

5. Describe the genetic recombination in Bacteria. [6

6. Describe the reproduction in Vaucheria. [6

7. Describe the sexual reproduction in Funaria. [6

8. Describe the life cycle of Agaricus. [6

9. Describe the ecological and economic importance of Pteridophytes. [6

10. Describe the life history of Cycas. [6