

Bachelor of Science (B.Sc. Part – I) First Semester
BO-01 – Botany Paper – I (Diversity of Microbes and Algae)

P. Pages : 2

Time : Three Hours



GUG/W/18/1200

Max. Marks : 50

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- Notes : 1. All questions are compulsory.
2. Illustrate your answer with suitable examples and draw well labelled diagrams wherever necessary.

1. What are Bacteriophages? Describe the multiplication of T₄ Bacteriophage. 10

OR

Explain the structure and reproduction of Nostoc. Add a note on its economic importance.

2. Classification of Algae by G. M. Smith. 10

OR

Describe Sexual Reproduction in Vaucheria.

3. Write short notes on :

a) Cell structure of Mycoplasma. 2½

b) Economic importance of Bacteria. 2½

c) Economic importance of Algae. 2½

d) Unilocular sporangium in Ectocarpus. 2½

OR

e) Mode of transmission of Viruses. 2½

f) Reproduction in Gleocapsa. 2½

g) Cell structure of Chlamydomonas. 2½

h) Pleurilocular Sporangium in Ectocarpus. 2½

4. Write short notes on :

a) General characteristics of Life. 2½

b) Transformation. 2½

c) Structure (Thallus) of Oedogonium. 2½

d) Structure of Nucule in Chara. 2½

OR

e) Economic importance of Viruses. 2½

f) Bacterial Conjugation. 2½

g) Nannandrium. 2½

h) Structure of Globule in Chara. 2½

5. Write in two or three lines **any ten**. (Diagrams are not necessary) **10**

a) Animal Viruses.

b) TMV

c) Capsid

d) Heterocyst

e) Binary fission

f) Prokaryotic

g) Oogonium

h) Phanerogams

i) Cap cell

j) Amylum star

k) Clump formation

l) Chatransia Stage.
