

B.Sc.(Part-I) (With Credits)-Regular-Semester 2012 Sem I
BO-01-Botany : Paper-I (Diversity of Microbes and Algae)

P. Pages : 2

Time : Three Hours



GUG/W/16/3300

Max. Marks : 50

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

1. Describe the structure of Mycoplasma, characteristics and add note on its pathogenicity. **10**

OR

Describe reproduction in Nostoc. Add a note on economic importance of cyanobacteria. **10**

2. Write on :

a) General characters of algae. **5**

b) Reproduction in Chlamydomonas. **5**

OR

Write on :

c) Asexual reproduction in Vaucheria. **5**

d) Thallus structure in Batrachospermum. **5**

3. Write short notes on :

a) Structure of T₄ Bacteriophage. **2½**

b) Classification of Bacteria. **2½**

c) Cell division in Oedogonium. **2½**

d) Pleurilocular sporangium in Ectocarpus. **2½**

OR

e) General characteristics of life. **2½**

f) Reproduction in Gloeocapsa. **2½**

g) Economic importance of algae. **2½**

h) Nucule in Chara. **2½**

4. a) Mode of transmission in virus. 2½
b) Conjugation in Bacteria. 2½
c) Sexual reproduction Algae. 2½
d) Thallus structure in Ectocarpus. 2½

OR

- e) Ultra structure of T.M.V. 2½
f) Economic importance of bacteria. 2½
g) Classification of algae (G. M. Smith 1955) 2½
h) Asexual reproduction in chara. 2½
5. Write **any ten** in one or two lines only (Diagrams are not necessary) **10**
- a) Fimbriae
b) Capsomere
c) Transduction
d) Nucleoid
e) Palmella stage
f) Akinetes
g) Globule
h) Rhizoid
i) Coenogamete
j) Tinsel flagellum
k) Glomerule
l) Trichogyne
