

Bs/M1/BCC-01

2024

(FYUGP)

(1st Semester)

BOTANY

(Minor)

Paper Code : M-1/BCC-01

(Microbiology and Phycology)

Full Marks : 75

Pass Marks : 40%

Time : 3 hours

(PART : B—DESCRIPTIVE)

(Marks : 50)

*The figures in the margin indicate full marks
for the questions*

UNIT—I

1. (a) Write a note on the evolution of population. 10

Or

- (b) What is speciation? Explain the mechanism of speciation. 2+8=10

(2)

UNIT—II

2. (a) Describe the structure of DNA virus (T-phase) with the help of suitable diagram. 10

Or

- (b) Write down the general characteristics of viroid and add at least three diseases caused by viroid in plants. 7+3=10

UNIT—III

3. (a) Write an account of wall less form (mycoplasma and spheroplasts) bacteria. Mention two examples of spheroplast bacteria. 8+2=10

Or

- (b) Explain the vegetative mode of reproduction in bacteria. Add a note on the economic importance of bacteria. 6+4=10

UNIT—IV

4. (a) Give an account of the classification system of algae according to Fritsch. 10

(3)

Or

(b) Write short notes on the following :

5+5=10

(i) Cell structure and components of algae

(ii) Flagella of algae

UNIT—V

5. (a) Write an account of occurrence and range of thallus organization of *Oedogonium*. 10

Or

(b) Give a detailed account on the reproduction and life cycle of *Polysiphonia*.

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