

2021

Time :As in Programme

Total Marks : 25+60

The figures in the right-hand margin indicate marks.

Draw labelled diagram wherever necessary.

Group-A (Practical Component)

1. Answer the following questions in two to three sentences each. (2.5x10= 25)
- a) Write two point of differences between archaebacteria and eubacteria.
 - b) What is palmella stage ?
 - c) What are spheroplasts ?
 - d) Write biological characteristics of viruses.
- e) Name three different shapes of chloroplasts found in different members of chlorophyta.
- f) Name the major photosynthetic pigments found in Rhodophyta.
- g) What is 'Gongrosira' stage ?
- h) What cell structure in phaeophyta.
- i) What are chemo litho trophs ?
- j) Write the role of algae in industry.

Group-B (Theroy Component)

2. Write notes on any Five questions of the following within 50 words each. (6x5= 30)
- a) Viroids
 - b) Mycoplasma
 - c) Evolutionary significance of prochloron.
 - d) Flagella in algae .
 - e) Reserve food in different groups of algae.
 - f) Role of cyanobacteria in biotechnology.
 - g) Morphology of Vaucheria.
 - h) Cap cell in Oedogonium.
 - i) Carposporophyte
 - j) TMV

3. Answer any three of the following questions within 300 words each. (10x3=30)

- a) Describe lytic cycle in Virus.

OR

Give an account on economic importance of viruses with special reference to vaccine production.

- b) Give an account on transformation in Bacteria.

OR

Describe the morphology and life cycle of Nostoc.

- c) Describe different methods of reproduction found among algae.

OR

Describe in brief the morphology and life cycle of coleochaete.

- d) Discuss the cell structure, morphology and life cycle of Ectocarpus.

OR

Describe in brief the life cycle of Chara.

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