

2022-26

Full Marks : 60

Time : 3 Hours

Candidates are required to give their answer in their own words as far as practicable. Their figures in the margin indicate full marks.

General Instructions :

- (i) **Group-A** carries very short answer type compulsory questions.
- (ii) Answer **three** out of **five** Subjective/ descriptive questions given in **Group-B**.
- (iii) Answer in your own words as far as practicable.
- (iv) Answer all sub-parts of a questions at one place.
- (v) Numbers in right indicate full marks of the question.

Group - A

1. Answer the following very short answer type questions : 5×1=5

(i) Name the nitrogen fixing bacterium of root nodule in a leguminous plant.

(ii) Name the alga in which cap cells are found.

(iii) What are Coenocytic hyphae.

(iv) Expand PPLO.

(v) Name the type of nucleic acid present in TMV.

2. Describe the structure of TMV. 5

3. Write about role of algae as food. 5

OR

Draw a well labelled diagram of Nostoc.

Group - B

Answer any **three** of the following question :

4. Why are bacteria called prokaryotes ? Describe the cell structure of a typical bacterial cell.

15

5. Discuss the diagram the structure of Bacteriophage Mention the lytic cycle of Bacteriophage. 15
6. Describe the life cycle of Volvox or Polysiphonia. 15
7. Describe stages of Puccinia graminis tritici on a wheat plant with suitable diagrams. 15

OR

Describe the life cycle of Peziza with suitable diagrams.

8. Describe the causal organism, symptoms, etiology and control measures of citrus canker.
or, Early blight of potato. 15

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