(3 Hours) [Total Marks-100]

All questions are compulsory

Figures to the right indicate full marks

Draw neat and labelled diagrams wherever necessary

## Q.1 Attempt Any Two

20

- a) Write general characters of Mycoplasma & Actinomycetes as a microbes.
- b) What is sterilization? Explain in detailed any two methods of sterilization.
- c) Define culture media? Explain in brief Liquid and solid culture media preparation studied by you
- d) What is pure culture? Discuss any one method of preparation of pure culture.

## Q.2 Attempt Any Two

20

- a) Describe thallus structure of Batrachospermum. Add a note on chantransia stage.
- b) Give an account of post fertilization changes in Polysiphonia..
- c) Give an account of sexual reproduction in Vaucheria.
- d) Explain the general characters of Chrysophyta.

# Q.3 Attempt Any Two

20

- a) Give an account of sexual reproduction in Basidiomycetes.
- b) Describe L. S. of the gills in Agaricus. Add a note on systematic position.
- c) Describe the stages in the life cycle of *Puccinia* on the secondary host.
- d) Describe the life cycle of Alternaria. Add a note on its classification.

### Q.4 Attempt Any Two

20

- a) Describe in detail the causal organism, and symptoms of damping of seedlings.
- b) Give a detailed account of leaf curl disease.
- c) Describe in detail the disease cycle of Citrus canker.
- d) Give a general accout of biological control methods of plant diseases,

84937 Page 1 of 2

- A Company of the Comp disease of the state of the sta