Answer the following questions.

Q1. How different groups of algae are classified on the basis of pigments they contain.

Q2. Write a detailed account on salient features of rhodophyta.

Q3. With the help of suitable diagrams, describe the morphology and reproduction in marchantia.

Q4. Explain the heterospory in pteridophytes.

Q5. Discuss the reproduction in pteropsida.
Q1. Discuss the complexity of female gametophytes in gymnosperms.

Q2. Write a detailed account on economic importance of gymnosperms.

Q3. With the help of suitable diagrams, describe the reproduction in *Cycus*.

Q4. Describe the ovule of *Ginkgo biloba*.

Q5 Write about the structure and reproduction in *Welwitschia*. 
M. Sc. Botany – First Semester
Course PG 101: Biology & Diversity of Viruses, Bacteria and Fungi

Answer the following questions.

Q1. Describe the general characteristics and ultrastructure of viruses.

Q2. Describe the ultrastructure and reproduction in eubacteria.

Q3. Write about structure and significance of Mycoplasma.

Q4. Give a brief account on reproduction in fungi.

Q5. Write short notes on the following:
   (i) Economic importance of fungi.
   (ii) Mycorriza
Q1. Compare the r-and k-strategies in plant ecology.
Q2. Describe the analytical and synthetic characters used in plant community analysis.
Q3. What is succession? Give a detailed account on its processes & types.
Q4. Write short notes on the following:
   (i) Energy flow in ecosystem.
   (ii) Food chain.
Q5. Write short notes on the following:
   (i) Chemical characteristics of soil.
   (ii) Nitrogen cycle.

M. Sc. Botany – First Semester
Course PG 104: Plant Ecology

M. Sc. Botany – Second Semester