Eastern University, Sri Lanka.

Second Year Examination in Science- 1994/95 & 1995/96 (Aug. 1997)

BT-201 Microbiology

Time: 2 Hours

Answer FOUR questions only

- 1. Write a concise account on the nature, structure and composition of plant viruses.
- 2. a) Draw a standard bacterial growth curve and label the various phases.
 - b) Explain the phases and discuss the factors which determine each phase.
 - c) How will you determine the generation time of a bacterial species?
- 3. Distinguish between the following;
 - a) Rhizomorphs and Haustoria
 - b) Cleistothecium and Apothecium
 - c) Virion and Viroids
 - d) Tyndallization and Pasteurization.
- 4. Write a brief account of the different methods of sterilization of materials in a laboratory and explain the principle in each method you mention.
- 5. Write short notes on the following;
 - a) Mycoplasma
 - b) Classification of bacteria
 - c) T4-bacteriophage
- 6. a) Outline the steps of municipal water treatment and comment on the objective of each step.
 - b) What is Eutrophication?
 - c) List the most important water borne diseases? Name the pathogen causing each.