

Shree Manibhai Virani and Smt. Navalben Virani Science College (Autonomous)

Affiliated to Saurashtra University, Rajkot

SEMESTER END EXAMINATION APRIL – 2017

M. Sc. Microbiology

16PMBCC07 – MYCOLOGY AND VIROLOGY

Duration of Exam – 3 hrs

Semester – II

Max. Marks – 70

Part A (5x2= 10 marks)

Answer **ALL** questions

1. Define Houtoria. Enlist its types
2. Define fruiting body. State its importance.
3. Enlist criteria used in LHT system for Virus classification
4. What do you mean by virulent phage? Give two examples.
5. Name two plant pathogenic fungi and state the diseases they cause.

Part B (5X5 = 25 marks)

Answer **ALL** questions

6a. Write a brief account of Fungal nutrition

OR

6b. Discuss Somatic structure of Fungi

7a. Discuss the process of Ascus formation

OR

7b. What are Slime molds? Why are they classified with fungi?

8a. Write a brief note on Virus symmetry

OR

8b. Discuss Prions in brief

9a. Discuss Baltimore Classification of Animal viruses

OR

9b. Discuss LHT system of Virus classification

10a. What is Biofertilizer? Write a note on Fungal biofertilizer.

OR

10b. Discuss any two viral diseases of animals

Part C (5X7 = 35 marks)
Answer **ALL** questions

11a. Write a detailed note on Fungal reproduction

OR

11b. Discuss Fungal Classification in detail

12a. Write an essay on general characteristics and distinguishing features of class Zygomycetes

OR

12b. Discuss general features and life cycle of fungi belonging to Class Basidiomycetes

13a. Discuss method of Animal virus cultivation

OR

13b. Explain methods of virus purification

14a. Describe life cycle of a virulent bacteriophage.

OR

14b. Write a note on role of viruses in cancer

15a. Discuss industrial applications of Fungi

OR

15b. Explain the role of virus in Plant Biotechnology
