

Shree Manibhai Virani and Smt. Navalben Virani Science College (Autonomous), Rajkot
Affiliated to Saurashtra University, Rajkot

SEMESTER END EXAMINATION NOVEMBER - 2017

M.Sc. Microbiology

16PMBCC10 – IMMUNOLOGY AND MEDICAL MICROBIOLOGY

Duration of Exam – 3 hrs

Semester – III

Max. Marks – 70

Part A (5X2= 10 marks)

Answer **ALL** questions

1. Define innate immunity
2. Define haematopoiesis
3. Define metastasis
4. Define opportunistic infection
5. Define zoonotic disease

Part B (5X5= 25 marks)

Answer **ALL** questions

- 6a. Draw a neat and labeled diagram of Antibody

OR

- 6b. Compare and contrast Immunogenicity and antigenicity

- 7a. Discuss the process of hematopoiesis

OR

- 7b. Write a short note on immunological basis of blood grouping

- 8a. Write a short note on graft rejection

OR

- 8b. Write a short note on Autoimmune diseases

- 9a. Briefly explain the pathogenicity and diagnosis of *Mycobacterium*

OR

- 9b. Write a short note on identification and pathogenicity of Ebola virus

- 10a. Write a short note on nosocomial infection

OR

- 10b. Write a short note on epidemiology of dengue

Part C (7x5= 35 marks)

Answer **ALL** questions

11a. Explain various types of in vitro antigen antibody interactions

OR

11b. Explain various classes of Antibody

12a. Explain cell mediated immune response

OR

12b. Define hypersensitivity and explain its types

13a. Discuss the mechanisms involved in tumor evasion of immune system

OR

13b. Explain various types of immunodeficiency diseases taking suitable example.

14a. Explain Filariasis

OR

14b. Discuss the role of Candida as medically important organism

15a. Explain the life cycle of *Plasmodium*

OR

15b. State the significance of zoonotic diseases and explain various control measures for zoonotic diseases.
