

[SPDBT-105]
M.Sc. DEGREE EXAMINATION

Biotechnology
I YEAR

MICROBIOLOGY & IMMUNOLOGY
(effective from the admitted batch 2009-10)

Time: 3 Hours

Max.Marks: 70

Instructions: All parts of the must be answered in one place only.
Figures in the right hand margin indicate marks allotted.

Answer all questions (5x14 = 70)

1. Explain bacterial recombination with suitable examples 14

OR

2. a) Write about live attenuated vaccines 7
b) List out Bacterial enrichment techniques 7

3. Write about classification of animal viruses 14

OR

4. a) Differentiate lysogenic and lytic cycle of Bacteriophages 7
b) Viroids and Prions 7

5. Write the differences between Innate immunity and Adaptive immunity 14

OR

6. a) MALT and GALT 7
b) Classification of antigens 7

7. Explain the structure and functions of Various antibiotics 14

OR

8. a) Complement cascade system 7
b) Antibody diversity 7

9. Write the Principle, Precautions and applications in Transplantation immunity 14

OR

10. a) Differentiate Radio immuno assay and Radial Immuno diffusion 7

b) Types of Hypersensitivity 7

[DL29/IY/210]