

MICROBIOLOGY- I

Time: 3 Hours

Max Marks: 80

Note: Answer all questions

Give Diagrammatic representation wherever necessary

Write an essay on any TWO of the following:

2 X 10 = 20

1. Define and classify Sterilisation. Describe about different methods of Moist heat Sterilisation.
2. Define and classify Hypersensitivity. Write in detail about type I Hypersensitivity.
3. Describe the pathogenesis and laboratory diagnosis of Typhoid fever.

Write a short note on any SIX of the following:

6 X 5 = 30

4. Anaerobic culture methods.
5. Laboratory diagnosis of Pneumococcal infections.
6. Bacterial food poisoning.
7. Write five differences between Exotoxins and Endotoxins.
8. Meningococcal meningitis.
9. Describe the principle and uses of ELISA test.
10. Immunoglobulin G.
11. Define and enumerate Nosocomial infections.

Write briefly on the following:

10 X 3 = 30

12. Louis Pasteur.
13. Indole test.
14. Anti Streptolysin O (ASO) test.
15. Definition and two biological functions of the Complement system.
16. Morphology of *Corynebacterium diphtheriae*.
17. What is autoimmunity? Name three autoimmune diseases.
18. T Lymphocytes.
19. Name three disinfectants and their uses.
20. Steps in Acid-fast staining.
21. Name three gram positive and three gram negative organisms causing urinary tract infections.
