

- 1 (a) Discuss the classification of micro organisms. (7)
(b) Describe the methods of viral replication. (7)
OR
(c) Describe the different methods employed for bacterial count. (7)
(d) Discuss the process of obtaining and maintaining pure cultures. (7)
- 2 (a) Describe the stages involved in acid fast staining. (7)
(b) Enumerate the causes for mutagenesis and explain the types of mutation. (7)
OR
(c) Discuss the modes of bacterial reproduction. (6)
(d) Explain the steps involved in the cultivation of anaerobic bacteria. (8)
- 3 (a) Differentiate between moist and dry heat sterilization. Write the conditions and method adopted for moist heat sterilization. (8)
(b) Write a note on gaseous sterilization. (6)
OR
(c) Describe the equipment, conditions and mode of action of dry heat sterilization. Add a note on its applications. (9)
(d) Write a note on Radiation sterilization. (5)
- 4 (a) Explain the types of reaction triggered by the body to foreign substances. (10)
(b) Differentiate between humoral and cell mediated immunity. (4)
OR
(c) How do you differentiate between primary and specific defense mechanism? Add a note on IgG. (9)
(d) Define the terms: (5x1)
(i) Attenuation (ii) Epitope (iii) Alloantigen (iv) Virulence (v) Immunogens
- 5 (a) Describe the mode of transmission, types and symptoms of TB. (7)
(b) What are the forms of plague? Explain the mode of transmission and symptoms. (7)
OR
(c) Describe the features of E.coli and its role in disease development. (7)
(d) Discuss the causes and symptoms of infective hepatitis. (7)
