

B.Sc. MEDICAL LABORATORY TECHNOLOGY

SECOND YEAR

PAPER IV – MICROBIOLOGY – I AND PARASITOLOGY, ENTOMOLOGY

Q.P. Code: 725019

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Define Antigen and Antibody. Enumerate the Antigen-Antibody reactions. Write a note on opsonization.
2. Name the various methods of staining Bacteria. Describe in detail the Principle and Technique of Gram Stain with examples.
3. Define and classify sterilization. Write in detail about Moist heat sterilization.

II. Write notes on:

(8 x 5 = 40)

1. Electron Microscope.
2. Robertson cooked meat medium.
3. Elek's Gel precipitation test.
4. Koch's Postulates.
5. Flagella.
6. Thayer Martin medium.
7. Carriers.
8. Western blot.

III. Short answers on:

(10 x 3 = 30)

1. Quellung reaction.
2. House fly.
3. Coagulase test.
4. Blood agar.
5. What do you mean by bactericidal and bacteriostatic agents? Give examples.
6. HEPA filters.
7. Partially selective medium.
8. Controls used in autoclave.
9. Name the vector which transmits kala-azar? How is it diagnosed?
10. Oxidase test.
