

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 1123]

NOVEMBER 2023

Sub. Code: 5019

B.Sc. MEDICAL LABORATORY TECHNOLOGY

SECOND YEAR (Regulations 2010-2011 & 2018-2019 onwards)

PAPER IV – MICROBIOLOGY-I & PARASITOLOGY, ENTOMOLOGY

Q.P. Code: 725019

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on: **(3 x 10 = 30)**

1. What are the common causative organisms of Urinary Tract Infection? How will you collect the urine sample and investigate a case of Urinary Tract Infection in the laboratory?
2. Name the different types of Media. Describe their preparation and explain their uses with suitable Samples and Bacteria.
3. Define and Classify Sterilization and write in detail about Dry and Moist Heat Sterilization.

II. Write notes on: **(8 x 5 = 40)**

1. Needle Stick Injury.
2. Ascaris lumbricoides (Round worm).
3. Hydatid Disease.
4. Bacterial Growth Curve.
5. Immunoglobulin M.
6. Agglutination – Principle and Uses.
7. Polymerase Chain Reaction (PCR).
8. Antibiotic Susceptibility Testing.

III. Short answers on: **(10 x 3 = 30)**

1. Name three Simple Stains.
2. Name three Glass Wares used in Laboratory and their uses.
3. Name three diseases transmitted by Mosquito.
4. Name three Opportunistic Parasitic diseases in HIV infection.
5. Name three Differential Media.
6. Name three Blood Borne Viruses.
7. Name three Bile Stained Eggs.
8. Name three Gaseous Disinfectants.
9. Name three Personal Protective Equipments.
10. List three contributions of Louis Pasteur.
