

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

[AHS 0423]

APRIL 2023

Sub. Code: 2602

**DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY  
FIRST YEAR (Regulations 2014-2015 & 2018-2019 onwards)  
PAPER II – FUNDAMENTALS OF MEDICAL LABORATORY  
TECHNOLOGY, MICROBIOLOGY  
Q. P. Code: 842602**

**Time: Three hours**

**Maximum : 100 Marks**

**Answer ALL Questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Classify the various types of Media and its importance. Briefly write about the preparation of Blood Agar.
2. Describe in detail Morphology, cultural characteristics and pathogenesis and lab diagnosis of Mycobacteria.
3. Write the various species of Malarial Parasites and explain the life cycle, pathogenesis and laboratory diagnosis of Plasmodium vivax.

**II. Write notes on:**

**(10 X 5 = 50)**

1. Difference between Disinfectant and Disinfection.
2. Biological indicator of Hot Air Oven and Autoclave.
3. Coagulase Test.
4. Antiseptics.
5. KOCH Postulates.
6. Light Microscopy.
7. Describe the types of Flagella with diagram.
8. Opportunistic fungal infection.
9. General characteristics of Virus.
10. What are the tests for Motility of Bacteria?

**III. Short Answers on:**

**(10 X 2 = 20)**

1. Venipuncture.
2. Biosafety.
3. Write any two Anticoagulants and its uses.
4. Preparation of Cleaning solutions.
5. Gram stain.
6. Anaerobic Jar.
7. Name three Pigment Producing Organisms.
8. Transport Media.
9. Mycosis.
10. KOH staining.

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