

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

**[AHS 0922]**

**SEPTEMBER 2022**

**Sub. Code: 2602**

**(FEBRUARY 2022 & AUGUST 2022 EXAM SESSIONS)**

**DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY  
FIRST YEAR (Regulations from 2014-2015 & 2018-2019)  
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. What is the importance of antibiotic susceptibility testing? Describe in detail about the disc diffusion method.
2. Describe about the pathogenesis and laboratory diagnosis of HIV. Add a note on prevention of transmission of HIV.
3. Enumerate the Intestinal Nematodes. Describe the life cycle and lab diagnosis of Hook Worm.

**II. Write notes on :**

**(10X5=50)**

1. Robertson cooked meat media.
2. Explain stool examination for parasitic infection.
3. Write notes on nutritional requirement of Bacteria.
4. Widal test.
5. Black water fever.
6. Difference between Exotoxin and Endotoxin.
7. Selective media.
8. Explain the modes of transmission of infection.
9. Give the color coding for disposal of biomedical waste in hospital.
10. Classify Streptococci.

**III. Short Answers on :**

**(10 X2 = 20)**

1. Name two fungi causing systemic infections.
2. Blood smear examination for haemoparasites.
3. Pasteurization.
4. Mention the types of Microscopes.
5. Differential stain.
6. Types of disinfectant.
7. Give the uses of Blood Agar.
8. Define Immunity.
9. Types of Hepatitis Virus.
10. Define Pour Culture.

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