

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

**[LR 1220]**

**DECEMBER 2020  
(AUGUST 2020 EXAM SESSION)**

**Sub. Code: 5033**

**BACHELOR IN MEDICAL LABORATORY TECHNOLOGY  
THIRD YEAR – (Regulation from 2010-2011)  
PAPER III – MICROBIOLOGY – II  
Q.P. Code: 725033**

**Time: Three Hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Specimen collection and processing of fungal infection.
2. Enumerate the viruses transmitted through blood transfusion. Describe the pathogenesis and lab diagnosis of Hepatitis virus .
3. List the causative agents of Pneumonia. Describe in detail the morphology, cultural characters and lab diagnosis of pneumonia.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Beta lactum agents.
2. Tissue culture.
3. Western blot.
4. Non sporing aerobes.
5. Cryptococcus neoformans.
6. Immunization schedule for polio virus and add a note on prophylactic measures of polio.
7. Media used in mycology.
8. Discuss the broad spectrum antibiotics and antimicrobial resistance.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Oxidase test.
2. TPHA.
3. Wood's lamp.
4. Composition of Blood agar
5. Germ tube test.
6. Stains to demonstrate metachromatic granules.
7. Stalactite growth.
8. Counter immunoelectrophoresis.
9. Anaerobic spore bearers.
10. What are the precautions to be taken while preparing or observing smears for AFB?

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