

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

**[PHARMD 1122]**

**NOVEMBER 2022  
(OCTOBER 2022 EXAM SESSION)**

**Sub. Code: 3808**

**PHARM. 'D' DEGREE EXAMINATION  
SECOND YEAR (2009-2010 Regulation)  
PAPER II – PHARMACEUTICAL MICROBIOLOGY  
*Q.P. Code : 383808***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Elaborate on bacteria ultra structure with a neat labelled diagram. Outline bacterial growth curve.
2. Define Microbiological assay. Write the principle and procedure of Microbiological assay of Antibiotics.
3. Explain in detail about thermal mode of sterilization with respect of principle, instrumentation, merits and demerits.
4. Discuss the general principles of immunity and structure of immunoglobulins.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Acid fast staining.
2. Peripheral smear study
3. Hot air oven.
4. Give a brief outline about Syphilis.
5. Write about Symptoms, diagnosis and prevention of Hepatitis.
6. Describe about Western blot technique.

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