

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

**[PHARMD 0424]**

**APRIL 2024**

**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. Discuss the structure of Bacteria with neat diagram.
2. Explain Test for Sterility for Pharmaceutical formulations.
3. Summaries the types of Immunity with examples.
4. Describe Microbiological assay of Antibiotics.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Acid fast staining.
2. Discuss in detail about Sterilization by Radiation method.
3. Explain the factors affecting disinfecting agent.
4. Illustrate the types of ELISA.
5. Write a note on Malaria.
6. Discuss in detail about the infectious disease of Hepatitis.

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