

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

[PHARMD 0122]

**JANUARY 2022
(OCTOBER 2021 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. Write in detail about the Sterility testing methods of Pharmaceuticals.
2. Elaborate the biochemical reactions for the identification of Microorganisms.
3. Discuss in detail about the Microbial assay of Vitamin B 12 (Cyanocobalamin).
4. Write the various methods of isolation of pure culture of bacteria.

II. Write notes on:

(6 x 5 = 30)

1. Syphilis.
2. Acid fast staining.
3. Hot air oven.
4. Evaluation of preservatives.
5. What are antigens? Write their types.
6. Peripheral smear study.
