

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

[BPHARM 0921]

**SEPTEMBER 2021
(SEPTEMBER 2020 EXAM SESSION)**

Sub. Code: 2035

**B.PHARM. DEGREE EXAMINATION
PCI Regulation 2017 – SEMESTER III
PAPER III - PHARMACEUTICAL MICROBIOLOGY**

Q.P. Code: 562035

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)

1. What is Differential staining? Explain in detail about the Acid fast staining method.
2. Define Disinfectants. Classify them and give a descriptive note on mode of action of disinfectants.
3. What is Spoilage? Write down the various factors affecting the spoilage of Pharmaceutical products.

II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)

1. Explain the morphological classification of Bacteria with suitable diagram.
2. Explain briefly about the nutritional requirements of Bacteria.
3. Cultivation method of Anaerobes.
4. Methyl Red test.
5. Write a note on Moist heat sterilization method.
6. Explain Phenol coefficient test?
7. Explain briefly about the different sources of contamination in an Aseptic area.
8. Assay of Antibiotics by cup plate or cylinder plate method.
9. Give the applications of cell cultures in Pharmaceutical industry and Research.

III. Short answers on: Answer ALL questions. (10 x 2 = 20)

1. Prokaryotes.
2. Functions of Pili.
3. Endospores.
4. Generation time.
5. Physical Indicators.
6. Disinfectant.
7. List some sterile Pharmaceutical products.
8. What is Sterility test?
9. Give any two importance of Aseptic technique.
10. Classification of Clean area.
