

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

[BPHARM 0122]

**JANUARY 2022
(AUGUST 2021 EXAM SESSION)**

Sub. Code: 4266

**B.PHARMACY DEGREE COURSE (NON-SEMESTER EXAMINATIONS)
THIRD YEAR (Regulation 2009-2010)
PAPER VI – PHARMACEUTICAL BIOTECHNOLOGY
Q.P. Code: 564266**

Time: Three hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. a) Define and Classify Disinfectants with examples. Write their mechanism of action.
b) Compare the dry heat and Filtration Sterilization.
2. a) Discuss about Production of Insulin by Genetic Engineering Method.
b) Explain about production of Penicillin by fermentations.

II. Write notes on:

(8 x 5 = 40)

1. Discuss the techniques of immobilization of Enzyme?
2. Complement-Fixation Test for Antigen-Antibody reactions.
3. Give notes on Auto immune disorders.
4. Add notes on small pox vaccine.
5. Brief the Cloning strategies.
6. Various types of biotransformation reactions.
7. Explain Bacterial Growth Curve.
8. Explain the criteria for Primary Screening of organism for fermentation.

III. Short answers on:

(10 x 2 = 20)

1. Haptens.
2. List some sterile pharmaceutical products.
3. Chick-Martin test.
4. Origin of Replication.
5. Application of Biotransformation.
6. Classification of Micro-organism based on temperature.
7. Triple Vaccines.
8. Northern blot.
9. Types of Sparger in fermentation process.
10. Component of Biosensor.
