

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

(LQ 4266)

FEBRUARY 2020

Sub. Code: 4266

B.PHARM. DEGREE EXAMINATION
(Common to Regulations 2004 – IV year candidates)
THIRD YEAR
PAPER VI - PHARMACEUTICAL BIOTECHNOLOGY

Q.P. Code: 564266

Time: Three hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Describe in detail about the test for Sterility and explain the Autoclaving process.
2. a) Explain Microbiological Assay of antibiotics.
b) Discuss in detail about Animal cell culture Media.

II. Write notes on:

(8 x 5 = 40)

1. Describe various techniques of isolation of bacterial pure culture.
2. Classify disinfectants based on their mechanism and uses.
3. Describe Microbial Biotransformation of steroids.
4. Explain production of Alcohol by fermentation method.
5. Describe the production of Hepatitis B Vaccine by genetic engineering method.
6. Discuss in detail about Immunodeficiency diseases.
7. Explain Southern Blot technique.
8. Summarize the applications of Monoclonal Antibodies.

III. Short answers on:

(10 x 2 = 20)

1. Classify bacteria based on temperature.
2. Give an example of filters used for sterilization.
3. Define Transduction and Conjugation.
4. What is Bacteriophage?
5. Define and classify restriction Endonucleases.
6. Give an example for the killed bacterial vaccine.
7. Major Histocompatible Complex (MHC).
8. Organism used for production of Citric acid.
9. Define Cell line.
10. Mention the types of Hypersensitivity reactions.
