

(LG 4266)

FEBRUARY 2015

Sub. Code: 4266

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

Q.P. Code: 564266

Time: Three hours

Maximum: 100 marks

I. Essay:

(2 x 20 = 40)

1. a) Differentiate between Gram positive and Gram negative cell wall with a neat labeled diagram.
b) Define virus. Explain bacterial growth curve.
2. a) What are Mono Clonal antibodies? Explain its methods of preparation and its application.
b) Explain the design and construction of the Fermenter.

II. Short notes:

(8 x 5 = 40)

1. Hot air oven
2. Preparation of diphtheria toxoid
3. Factors affecting disinfection
4. Bioprocessing of ethanol
5. Hyper sensitivity reaction
6. Microbiological assay of vitamin B₁₂.
7. Regulation of gene expression
8. Production of Hepatitis B vaccine by rDNA technology

III. Short Answers:

(10 x 2 = 20)

1. Define immunity
2. Examples of killed bacterial vaccine
3. Define Biosensor
4. Synchronous culture
5. Classify Disinfectant
6. Use of Western Blot test
7. Examples of Motile bacteria
8. Define Viable count
9. Define Sterilization
10. Define Vectors
