

[LD 4266]

AUGUST 2013

Sub. Code: 4266

THIRD B.PHARM. EXAM

(Common to regulation 2004 – IV year candidates)

PHARMACEUTICAL BIOTECHNOLOGY

Q.P. Code: 564266

Time : Three hours

Maximum: 100 Marks

I. Elaborate on:

(2X20=40)

1. (a) Discuss bacterial growth curve.
(b) Explain gram staining method.
2. Explain production of monoclonal antibody and its application.

II. Write notes on:

(8X5=40)

1. Autoclave.
2. Phenol coefficient test.
3. Simple media.
4. Differentiate between active immunity and passive immunity.
5. Polio vaccine.
6. Production of interferon by recombinant DNA (Deoxyribo nucleic acid) technology.
7. Method of immobilization of enzyme.
8. Application of animal tissue culture.

III. Short Answers:

(10X2=20)

1. Define bacteria.
2. List the methods of sterilization.
3. Tyndallization.
4. Fumigation.
5. Use of culture media.
6. Types of immunity.
7. Use of western blot test.
8. High yield producing organism of glutamic acid.
9. Structure of DNA (Deoxyribo nucleic acid).
10. Culture media for animal cells.
