

(LE 4266)

FEBRUARY 2014

Sub. Code: 4266

THIRD YEAR B.PHARM. EXAM

(Common to Regulations 2004 – IV year candidates)

PHARMACEUTICAL BIOTECHNOLOGY

*Q.P. Code: 564266*

Time: Three Hours

Maximum: 100 marks

**I. Elaborate on:**

(2X20=40)

1. a) Define disinfection. Classify them with examples and write their mechanism of action.
- b) Differentiate dry heat and filtration sterilization
2. a) Production of penicillin by fermentation.
- b) Poliomyelitis vaccine.

**II. Write notes on:**

(8X5=40)

1. Explain about the structures external to the cell wall.
2. Types of biotransformation reactions.
3. Auto immune disorders
4. Small pox vaccine preparation and evaluation.
5. Cloning strategies.
6. Quantitative estimation of antigen and antibody.
7. Techniques in immobilization of enzyme.
8. Screening method in fermentation process.

**III. Short Answers on:**

(10X2=20)

1. Classification of micro organism based on temperature.
2. List some sterile pharmaceutical products.
3. Chick-Martin test.
4. Insertion sequences
5. Application of Biotransformation.
6. Haptens
7. Triple Vaccines
8. Northern blot
9. Official Parameters in fermentation process
10. Component of Biosensor

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