



(LL 4266)

AUGUST 2017

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. a) Explain the production of Insulin by rDNA technology.
b) Discuss the methods of transfer of genetic materials in bacteria.
2. a) Explain the design of Fermento
b) Discuss microbiological assay of Antibiotics.

II. Write notes on:

(8 x 5 = 40)

1. Types of culture media.
2. Filtration sterilization.
3. Chick Martin Test.
4. Preparation of BCG vaccine.
5. Differentiate between gram positive and gram negative bacteria.
6. Production of citric acid by Fermentation metho
7. Southern blotting technique.
8. Production of single cell protein.

III. Short answers on:

(10 x 2 = 20)

1. Define Phototrophs and Chemotrophs.
2. Classify bacteria based on temperature.
3. Active immunity.
4. Haptens.
5. Microorganisms used in production of alcohol.
6. Component of Biosenso
7. Plasmid vecto
8. Define sterilization.
9. Types of sparge
10. Culture media for animal cells.

