

[LC 4266]

FEBRUARY 2013

Sub. Code: 4266

THIRD YEAR B.PHARM. EXAM

(Common to regulation 2004 – IV year candidates)

PHARMACEUTICAL BIOTECHNOLOGY

Q.P. Code : 564266

Time : Three hours
(180 Min)

Maximum: 100 Marks

I. Elaborate on:

(2x20=40)

1. (a) Write about the morphology, reproduction and nutrition of bacteria.
- (b) How an antibiotic can be assayed by one level and two level?
2. (a) Define and classify the immunity? Explain the production and evaluation of BCG vaccine.
- (b) Explain the production of insulin by genetic engineering technology.

II. Write notes on:

(8x5=40)

1. Radiation sterilization.
2. Rideal-Walker (W) test.
3. ELISA technique.
4. Citric acid production by fermentation metho
5. Biosensors.
6. Application of animal tissue culture.
7. Restriction endonucleases.
8. Bacterial growth curve.

III. Short Answers:

(10x2=20)

1. Active immunity.
2. Anabolism.
3. Bacteriophage.
4. Biological indicato
5. Cloning.
6. Enzyme induction.
7. Facultative anaerobe.
8. Gene mapping.
9. Haemagglutinin.
10. Interferon.
