

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. Define monoclonal antibody. Discuss production and applications of monoclonal antibodies.
2. a) Discuss production of penicillin by fermentation process.
b) Define disinfectant. Describe factors affecting the choice of disinfectant.

II. Write notes on:

(8 x 5 = 40)

1. Discuss selective and differential medium with example.
2. Discuss microbiological assay of antibiotic by using disc diffusion method.
3. Describe production of interferon by genetic engineering method.
4. Explain acid fast staining.
5. Discuss active immunity.
6. Describe gaseous sterilization.
7. Describe commonly employed techniques for immobilization of enzyme.
8. What is flagella? Describe classification of bacteria based on flagella.

III. Short answers on:

(10 x 2 = 20)

1. Define Immunoblotting.
2. Define transformation.
3. Application of southern blotting.
4. Bacterial counting methods.
5. Storage temperature of poliomyelitis vaccine and small pox vaccine.
6. What is biological indicators?
7. Define Fermentation.
8. What is capsid?
9. Give culture media used for animal cells.
10. Define immuno-suppression.
