

FEBRUARY 2011

[KY 751]

Sub. Code: 4242

FOURTH B.PHARM. DEGREE EXAMINATION

(Regulations 2004) Candidates Admitted from 2004-05 onwards

Paper I – PHARMACEUTICAL BIOTECHNOLOGY

Q.P. Code : 564242

Time : Three hours

Maximum : 90 marks

I. Essay Questions : Answer any TWO questions. (2 x 20 = 40)

1. (a) Give the classification and uses of Enzyme biotechnology. Give a brief note on commercial production method of Amylase and Streptokinase.
(b) Define Biosensors and give its types and write note on each type with example.
2. Define Fungi. Explain its types. Give a brief summary of sexual and asexual reproduction of fungi.
3. (a) Define Disinfectants. Mention the factors affecting its action and its evaluation methods.
(b) Evaluation of preservatives used in Pharmaceutical preparations.

II. Write Short Notes : Answer any EIGHT questions. (8 x 5 = 40)

1. Pathogenesis of Viral infection.
2. Artificial Passive Immunity.
3. Gene transfer.
4. Schematic representation of production of ethanol by fermentation.
5. Classification of Immunoglobulins.
6. Methods of isolating pure culture.
7. Microbiology of water.
8. Give a brief note on applications of rDNA and production of Interferons using genetic engineering.
9. Auto Immuno disorders.
10. Production of single cell protein.

III. Short Answers: Answer any FIVE questions. (5 x 2 = 10)

1. The F factor.
2. Cytotoxicity.
3. Eugenics.
4. Western Blot Technique.
5. BCG vaccine.
6. HEPA filter.
7. Limitations of DNA transfer.
