

B.PHARMACY DEGREE COURSE (NON-SEMESTER EXAMINATIONS)
THIRD YEAR (Regulation 2009-2010)
PAPER VI – PHARMACEUTICAL BIOTECHNOLOGY

Q.P. Code: 564266

Time: Three hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. a) Describe in detail the stages in Western blot procedure.
b) Explain building blocks of Proteins Synthesis in a Bacterial cell.
2. Classify different methods of Sterilization. Explain merits and demerits of physical sterilization and filtration.

II. Write notes on:

(8 x 5 = 40)

1. Microbiological assay of Vitamins.
2. Biosensors.
3. Discuss different types of Vectors used in cloning process.
4. Production of citric acid by fermentation.
5. How disinfection can be evaluated?
6. Identification Test for Gram positive bacteria.
7. Transduction process.
8. Bacterial counting techniques.

III. Short answers on:

(10 x 2 = 20)

1. Down streaming process.
2. Sparger.
3. Fimbria and Pili.
4. DNA Gyrase and DNA Ligase.
5. Nucleotide.
6. Write the three letters of Initiating Codons and Terminating Codons.
7. Incineration.
8. Live Bacterial vaccines.
9. Restriction endonucleases.
10. Mean generation time.
