

Code No: 07A82306

R07

Set No. 2

IV B.Tech II Semester Examinations, APRIL 2011

BIOPHARMACEUTICAL TECHNOLOGY

Bio-Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. What are bio-pharmaceuticals? Mention different bio-pharmaceuticals with examples. [16]
2. Write the different mechanisms of drug action? [16]
3. Discuss in detail about the evolution of pharmacy. [16]
4. What are the Physiological barriers affecting the distribution of drugs? [16]
5. Write a note on the following:
 - (a) Intelukenis
 - (b) Human growth harmones. [8+8]
6. Enlist the role of erythropoietin in kidney diseases and anaemia. [16]
7. Explain briefly about the development of RNA based immunotoxins and design of immunotoxins. [16]
8. Discuss in detail about the biocompatibility of nanoparticles for drug delivery. [16]

Code No: 07A82306

R07

Set No. 4

IV B.Tech II Semester Examinations, APRIL 2011

BIOPHARMACEUTICAL TECHNOLOGY

Bio-Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Explain facilitated diffusion and active transport. [16]
2. Discuss various biomaterials necessary for designing the sustained drug delivery systems. [16]
3. Discuss in detail about various granulation methods. [16]
4. Write briefly about influence of Isosterism, Optical isomerism, steric features in drug receptor interactions. [16]
5. Discuss the application of cytokine therapy. [16]
6. Give the sources of raw materials for therapeutically used biopharmaceuticals with examples. [16]
7. (a) Describe the manufacture and characterization of interferon.
(b) Write the pharmacokinetics of interferon. [8+8]
8. What are radioisotopes and give their application in treatment of thyroid and cancer? [16]

Code No: 07A82306

R07

Set No. 1

IV B.Tech II Semester Examinations, APRIL 2011

BIOPHARMACEUTICAL TECHNOLOGY

Bio-Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. List the physiological factors that affect the drug distribution. [16]
2. Discuss about the Current Good Manufacturing Practice regulation for bulk pharmaceutical chemicals. [16]
3. Discuss various machineries used and process of filling hard gelatin capsules. [16]
4. Describe how cytokines are produced and explain how they are evaluated. [16]
5. Explain the effects of TGF β on monocyte and macrophages. [16]
6. (a) Explain the targets of G- protein coupled receptor.
(b) Write the mechanism involved in calcium extrusion and release in a receptor. [8+8]
7. Explain about the utilization of biomaterials in nanoparticulate drug delivery system. [16]
8. Enumerate the application of reverse genetics by mutagenesis. [16]

Code No: 07A82306

R07

Set No. 3

IV B.Tech II Semester Examinations, APRIL 2011

BIOPHARMACEUTICAL TECHNOLOGY

Bio-Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. How will you evaluate and test the products developed through New Drug Delivery Systems (NDDS)? [16]
2. (a) Explain drug - protein target interactions.
(b) Explain pharmacokinetic antagonism. [8+8]
3. Write about drugs of animal source with examples. [16]
4. Explain the following with reference to Current Good Manufacturing Practice:
(a) Responsibility of Quality Control Unit
(b) Personal responsibility
(c) Training for personals. [6+5+5]
5. Explain the methods with formula for the determining the dose in obese patient and children. [16]
6. Enumerate some hormones which are used in the treatment of breast cancer. [16]
7. Explain the production of hormones by rDNA technology. [16]
8. Classify Nucleic acids. Describe the isolation of RNA and DNA. [16]
