Code: R7422305

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IV B.Tech II Semester(R07) Regular Examinations, April 2011 BIOPHARMACEUTICAL TECHNOLOGY

(Biotechnology)

Time: 3 hours Max Marks: 80

Answer any FIVE questions All questions carry equal marks

- 1. Explain about different sources of drugs and different routes of drug administration.
- 2. Write a short notes on:
 - (a) Mechanism of drug action
 - (b) Drug receptors.
- 3. Give an account on biotransformation and bioavailability of drugs.
- 4. Write a brief note on:
 - (a) Sources of biopharmaceuticals
 - (b) Good manufacturing practices.
- 5. Give an account on production of biopharmaceuticals.
- 6. Write a short notes on:
 - (a) Interferons
 - (b) Nucleic acids.
- 7. Explain various applications of biopharmaceuticals.
- 8. Write a short notes on:
 - (a) Liposome mediated drug delivery
 - (b) Drug delivery methods for the rapeutic proteins.

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IV B.Tech II Semester(R07) Regular Examinations, April 2011 BIOPHARMACEUTICAL TECHNOLOGY

(Biotechnology)

Time: 3 hours Max Marks: 80

Answer any FIVE questions All questions carry equal marks

- 1. Explain about the physiological receptors and drug receptors.
- 2. (a) Define the drug.
 - (b) Explain different dosage forms of drug.
- 3. Write about the drug absorption and factors that affect the absorption of drugs.
- 4. Explain the good manufacturing practices and manufacturing facilities.
- 5. Write a note on analysis of biopharmaceuticals.
- 6. Give an account on:
 - (a) Therapeutic proteins.
 - (b) Interleukins.
- 7. Write about the role of biopharmaceuticals in treatment of various health disorders.
- 8. Write a short note on:
 - (a) Biomaterials.
 - (b) Drug delivery systems.

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(Biotechnology)

Time: 3 hours Max Marks: 80

Answer any FIVE questions All questions carry equal marks

- 1. Give an account on:
 - (a) Different dosage forms.
 - (b) Routes of drug administration.
- 2. Explain the physico-chemical principles of pharmacodynamics.
- 3. Write a short note on:
 - (a) Distribution of drugs.
 - (b) Biotransformation of drugs.
- 4. Explain the sources of biopharmaceuticals.
- 5. Write a brief note on:
 - (a) Production of biopharmaceuticals.
 - (b) Analysis of biopharmaceuticals.
- 6. Explain about the production of hormones and cytokines.
- 7. Write a brief note on applications of biopharmaceuticals.
- 8. Explain about the:
 - (a) Controlled and sustained delivery of drugs.
 - (b) Liposome mediated drug delivery.

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IV B.Tech II Semester(R07) Regular Examinations, April 2011 BIOPHARMACEUTICAL TECHNOLOGY

(Biotechnology)

Time: 3 hours Max Marks: 80

Answer any FIVE questions All questions carry equal marks

- 1. Define drug and write about different sources of drugs.
- 2. Explain the mechanism of drug action and drug receptors.
- 3. Write a short note on:
 - (a) Drug absorption
 - (b) Bioavailability of drugs.
- 4. Give an account on:
 - (a) Manufacturing facilities.
 - (b) Sources of Biopharmaceuticals.
- 5. Write a brief note on production of biopharmaceuticals.
- 6. Write a short note on:
 - (a) Tumor necrosis factor
 - (b) Cytokines
- 7. Explain the role of biopharmaceuticals in treatment of various health disorders.
- 8. Write a note on:
 - (a) Drug delivery methods for therapeutic proteins.
 - (b) Liposome mediated drug delivery.
