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B. Pharma. (Eighth Semester) Examination, 2020

PHARMACEUTICS-XI

Paper : VIII-T-1

(Pharmaceutical Technology-II)

Maximum Marks : 70

Note: Attempt any five questions. All questions carry equal marks.

1. What are the advantages of transdermal drug delivery system? Discuss various components used in the development of transdermal drug delivery system.
2. What do you mean by Resealed erythrocytes? Discuss various drug entrapment methods of erythrocytes or pharmaceutical application of erythrocytes as a drug carrier.
3. Discuss carriers of drug delivery system in detail. Describe prodrugs in detail.
4. Describe preparation and pharmaceutical application of Nanoparticles in detail.
5. Discuss pharmaceutical significance of packaging materials in detail.
6. Discuss the following :
 - (a) Osmotic pumps
 - (b) Implants and Inserts
7. Write short notes on any **two** :
 - (a) Packaging equipments
 - (b) Liposomes
 - (c) Application of microcapsules

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PHARMACEUTICS-XII

Paper : VIII (T-2)

(Biopharmaceutics and Pharmacokinetics)

Time Allowed : Three hours

Maximum Marks : 70

*Note: Attempt any **five** questions. Each questions carries equal marks.*

1. Define drug absorption. Describe various mechanism of drug absorption.
2. Discuss physicochemical factors affecting drug absorption.
3. How drugs are excreted via kidney? Discuss the factors affecting renal excretion of drugs.
4. Explain the term bioavailability and bioequivalence. How bioavailability of drug is estimated.
5. Discuss the pathways of drug metabolism and factors affecting drug metabolism.
6. What do you mean by pharmacokinetic models, explain one compartment model.
7. Write short notes on any **two** :
 - (i) Significance of pharmacokinetics
 - (ii) Drug protein binding
 - (iii) Pharmacokinetics drug interactions
 - (iv) Biliary excretion

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Paper : VIII (T-3)

PHARMACEUTICS ANALYSIS-III

Time Allowed : Three hours

Maximum Marks : 70

Note: Attempt any five questions. Each questions carries equal marks.

1. What do you mean by Validation? Discuss various types of validation in detail.
2. Why documentation is essential for Pharmaceutical Industry. Discuss various documents used in the pharmaceutical Industry.
3. What do you mean by patent. Discuss patentable and non patentable inventions in detail.
4. Discuss ISO 9000 in detail.
5. Discuss Good Laboratory Practices (GLP) and its advantages.
6. Why quality assurance is essential. Discuss various sources and control of quality variation.
7. Write short notes on : (any **two**)
 - (i) IPQC problem in tablets
 - (ii) Total Quality Management
 - (iii) New Drug Approval
 - (iv) Evaluation of tablets as per I.P.

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PHARMACOLOGY-IV

Paper : VIII (T-4)

(Clinical Pharmacy and Drug Interaction)

Maximum Marks : 70

*Note: Attempt any **five** questions. All questions carry equal marks.*

1. Give comments on following :
 - (a) Hypertrophy
 - (b) Causes of Cell Injury
2. Give the initial management and treatment of barbiturate poisoning.
3. Explain pharmacokinetic and pharmacodynamic of drug therapy in Paediatrics.
4. Discuss the basic mechanism involved in the process of repair and inflammation.
5. Explain :
 - (a) Individualization of drug therapy
 - (b) Drug induced disease
6. Explain principles of cell adaptation.
7. Write short note on : (any **two**)
 - (a) Heavy Metal Antagonists
 - (b) Drug use in Pregnancy
 - (c) Therapeutic Drug Monitoring (TDM)

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PACKAGING TECHNOLOGY

Paper : VIII (T-S)

Maximum Marks : 70

*Note: Attempt any **five** questions. Each questions carries equal marks.*

1. Discuss package system and package design research in detail.
2. Give detail about various packaging materials used in pharmaceutical industry.
3. Discuss advantages of strip packaging. Give detail account on strip packaging.
4. Discuss pharmacopoeial tests of containers.
5. Discuss the following :
 - (i) Packaging of aerosols
 - (ii) Legal requirement of packaging
6. Discuss defects of glass bottles or blister packaging film.
7. Write short notes on any **two** :
 - (i) Labels
 - (ii) Leaflets
 - (iii) New concept in pharmaceutical packaging