

[SV 287] APRIL 1998

M. Pharm. DEGREE EXAMINATION.

(New Regulations)

First Year

Branch VII — Pharmacy Practices

Paper II — PHARMACOLOGY AND THERAPEUTICS

Time : Three hours

Maximum : 100 marks

Answer any FOUR questions.

All questions carry equal marks.

1. Discuss in detail the various factors affecting drug absorption.
2. (a) Explain the clinical significance of plasma binding with examples.
(b) Write about the factors which modify renal excretion of drugs.
3. (a) Discuss the pharmacology of inflammation. Add a note on NSAIDs.
(b) Write how various drugs can modify the opioid receptor action.
4. Describe the Phase I and Phase II reactions in drug metabolism. Explain how biological factors influence biotransformation of a drug.
5. Write briefly on :
 - (a) Pro drugs.
 - (b) Double blind technique.

(c) Prosta glandins.

(d) Oral antidiabetic drugs.

6. Classify adverse drug reactions. Explain the various methods employed to monitor adverse drug reaction with examples.
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Answer ALL questions.

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1. Discuss Phase II reactions in drug metabolism with suitable examples. Explain the consequences of enzyme induction and inhibition.
2. Discuss the various types of adverse drug reactions and the methods used to monitor such reactions.
3. Discuss the mechanism of action, pharmacokinetics, adverse effects and clinical uses of cephalosporins.
4. Write notes on :
 - (a) Drugs prescribing in pregnancy and breast feeding
 - (b) Intravenous additives and their interactions.

5. Explain the mechanism by which normal blood pressure is maintained. Discuss the mechanism of action and adverse effects of drugs used in the treatment of hypertension.

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1. Explain the terms bioavailability, bio equivalence and therapeutic equivalence. Discuss how bioavailability studies are carried out.

2. (a) Explain how genetic factors can affect drug metabolism.

(b) Discuss on the transfer of drugs across the biological membrane.

3. (a) Explain the pathophysiology and treatment of Angina Pectoris.

(b) Explain how clinical trails are designed.

4. Discuss the drug–drug interaction in detail with suitable examples. How can drug–drug interactions be prevented or modified?

5. Discuss opioid receptors. Explain how various drugs can modify the opioid receptor actions.

6. Write briefly on :

(a) Non–steroidal anti-inflammatory drugs

(b) Immuno–suppressive agents

(c) Prostaglandins

(d) Analgesics.

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1. What is drug interaction? Discuss the mechanisms involved in pharmacokinetic drug interactions with examples and the means to avoid such interactions.
2. What are aminoglycosides? Discuss the antimicrobial spectrum, pharmacokinetics, adverse effects and clinical uses of gentamicin.
3. Explain the factors that influence the metabolism of drugs.
4. Write short notes on :
 - (a) Neurohumoral transmission in the CNS.
 - (b) Aspirin
 - (c) Heavy metal poisoning and treatment
 - (d) Biological Half-life.

5. Discuss the pathophysiology of cardiac arrhythmias and the drugs used to treat common arrhythmias.

6. Discuss the mechanism of action pharmacology and toxicology of antifertility agents in detail.
