

F/2023/8106

Total Pages : 2

Second Year Pharmacy  
PHARMACOLOGY  
(ER20-21T)

Time : Three Hours

Maximum Marks : 80

- Note : i) Attempt any five questions.  
ii) Each question carry equal marks.

1. a) Enlist routes of administration. Write the advantages and disadvantages of Oral Route. 8  
b) Explain the term pharmacokinetics discuss the metabolism of drugs. 8
2. a) Explain the following terms: 2×4=8  
i) Bioavailability of drugs  
ii) Therapeutic index  
iii) Protein Binding  
iv) First pass effect  
b) Differentiate the following (any two) 2×4=8  
i) General and Local Anaesthetic  
ii) Sympathetic and Parasympathetic Nerve transmission  
iii) Opioid and Non-opioid Analgesics
3. a) Discuss the pharmacology and therapeutic uses of Adrenaline or Atropine. 8  
b) Classify Non-opioid analgesics with examples. Discuss the pharmacology and adverse reactions of Aspirin. 8
4. a) Classify sedative and Hypnotic with examples. Give the pharmacological action and therapeutic uses of phenobarbitone. 8  
b) Write notes on any two : 2×4=8  
i) Stages of General anaesthesia  
ii) Mechanism of action of local Anaesthetics  
iii) Drugs acting on Eye  
iv) Antitussive Agents

5. a) Classify Antihypertensive with examples. Give the pharmacology of propranolol. 8  
b) Write notes on any two: 8  
i) Mechanism of Action of Digitalis  
ii) Antianginal drugs  
iii) Fibrinolytic Agents
6. a) Classify Diuretics with examples. Give the pharmacology indications and contraindication of loop Diuretics. 8  
b) Write short notes on (Any two) 8  
i) Drugs used in Peptic Ulcer  
ii) Laxative and Purgatives  
iii) Oral Hypoglycemics
7. Give reasons for the following (Any four) 4×4=16  
a) Isosorbide dinitrate is given sublingually.  
b) Diuretics are given in combination with antihypertensives.  
c) Vitamin C is given with Iron.  
d) Probenecid is given with Penicillin.  
e) Amoxicillin is given with Clavulanic Acid.
8. Give the mechanism of action, therapeutic uses and adverse reactions of the following drugs. 8×2=16  
a) Erythromycin  
b) Gentamicin  
c) Cotrimoxazole  
d) Rifampicin  
e) Chloroquine  
f) Amphotericin B  
g) Zidovudine  
h) Methotrexate

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P.T.O.

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