

[Total No. of Questions - 10] [Total No. of Printed Pages - 2]
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B. Pharmacy 5th Semester Examination

Pharmacology-I (O.S.)

HBP-305

Time : 3 Hours

Max. Marks : 80

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt five questions in all. Select one question each from Section A, B, C and D. Section E is compulsory.

SECTION - A

1. Answer the followings.
 - (a) What is combined drug effect? Give examples and explain synergism and antagonism. **(8)**
 - (b) Why drug biotransformation requires? Describe about the oxidation, glucuronide conjugation and acetylation type of reactions. **(8)**
2. Write a detailed note on followings.
 - (a) Write a note on Parental routes of Drug administration. **(8)**
 - (b) Various stages of clinical trial. **(8)**

SECTION - B

3. Give the answer of followings.
 - (a) Classify the adrenergic blockers. Write the pharmacology and therapeutic uses of β blockers. **(8)**
 - (b) Classify the neuromuscular blocking agents. Explain the pharmacology of Succinylcholine. **(8)**
4. Write a note on parasympathomimetics. **(16)**

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SECTION - C

5. Write a note on followings:
- (a) Stages of general anaesthesia. (8)
 - (b) Classification and pharmacology of Antipsycotic drugs. (8)
6. Answer the followings.
- (a) Classify the antidepressants and write a note on tricyclic antidepressants. (8)
 - (b) Classify the Sedative hypnotics. Write a short note on barbiturates. (8)

SECTION - D

7. Answer the followings.
- (a) Classify the Analgesics. Write a note on salicylates. (8)
 - (b) Classify the antiepileptic drugs. Discuss in detail about mechanism of action, pharmacokinetics, interactions and adverse effect of phenytoin. (8)
8. Write a detailed note on Antiparkinsonian Drugs. (16)

SECTION - E

9. Answer the followings.
- (i) Define Drug Tolerance.
 - (ii) Name any two centrally acting muscle relaxants.
 - (iii) Enlist any two drugs used in treatment of glaucoma.
 - (iv) Define Half life.
 - (v) True/False: Local anaesthetics often fail to afford adequate pain control in inflamed tissue.
 - (vi) Name the drug metabolized through acetylation. (1×6=6)
10. Describe the biosynthesis and metabolism of catecholamines. Explain the receptor distribution of α and β adrenoceptors receptor, selectivity of Adrenaline, Nor Adrenaline and isoprenaline. (10)