

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 10

B.Pharmacy (Sem.-7)

PHARMACEUTICAL CHEMISTRY VII (MEDICINAL CHEMISTRY)

Subject Code : PHM-475

Paper ID : [D0173]

Time : 3 Hrs.

Max. Marks : 80

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt any THREE questions.

SECTION-A**1. Answer briefly :**

- a. Antitussive.
- b. Draw the structure of Benzocaine.
- c. Platelet aggregation inhibitors.
- d. Write two examples of high ceiling diuretics.
- e. Give the structure and uses of Valproic acid.
- f. Give two examples of intravenous anaesthetics.
- g. What are hydantoins?
- h. Give the general mechanism of local anaesthetics.
- i. Anticoagulants.
- j. Uses of Propranolol.
- k. Oral contraceptives.

- l. Give two examples of tricyclic antidepressants.
- m. Thiazides.
- n. Give structure of Pentazocine.
- o. Mechanism of action of carbonic anhydrase inhibitors.

SECTION-B

- 2. What are anticonvulsants? Give SAR of benzodiazepines as anticonvulsants.
- 3. Classify local anaesthetics. Give synthesis of lignocaine.
- 4. Discuss anti-anginals and vasodilators. Give synthesis of procainamide.
- 5. Describe tricyclic anti-depressants and give synthesis of amitriptyline.
- 6. Give mechanism of action of aldosterone antagonists and give synthesis of spironolactone.

SECTION-C

- 7. What are antiarrhythmic drugs? Classify them and write down synthesis of at least one drug from each class.
- 8. What are opioid analgesics? Discuss in detail about morphine and its synthetic analogues? Give critical account of opioid antagonists.
- 9. Classify antipsychotic agents and give mechanism of action and synthesis of at least one drug from each class.
- 10. Give the structure, stereochemistry and biosynthesis of Cholesterol.