



Roll No.

Total No. of Pages : 02

Total No. of Questions : 10

B.Pharmacy (Sem.-7)
**PHARMACEUTICAL CHEMISTRY-VII/PHARMACEUTICAL
CHEMISTRY-VII (MEDICINAL CHEMISTRY)/MEDICINAL
CHEMISTRY-II**

Subject Code : PHM-475

M.Code : 46163

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. Write short notes on :

- a) What are contraceptives?
- b) Give two examples of inhalation anaesthetics.
- c) What are side effects of barbiturates?
- d) Define opiates.
- e) What is methadone?
- f) Define antitussives.
- g) What are CNS stimulants?
- h) Draw structure and give IUPAC name of phenytoin.
- i) Define anxiolytics.
- j) Draw structure and give MOA of acetazolamide.
- k) What are statins?
- l) Give IUPAC name and clinical uses of methyldopa.
- m) Draw structure and give IUPAC name of captopril.



- n) Draw structure and give uses of furosemide.
- o) Give MOA of verapamil.

SECTION -B

- 2. Discuss SAR of benzoic acid derivatives for local anaesthetic activity.
- 3. Classify anticonvulsants with structural example of each class. Comment on typical structural features required for anticonvulsant activity.
- 4. Write a note on tricyclic antidepressants.
- 5. Explain diuretic action of carbonic anhydrase inhibitors. Give synthesis of acetazolamide.
- 6. Give synthesis of nalorphine. Comment on endogenous opioid peptides.

SECTION-C

- 7. Describe four stages of cholesterol biosynthesis. Give SAR of progestational agents.
- 8. Describe structures of β -blockers clinically approved for the treatment of hypertension. Give synthesis of propranolol.
- 9. What are ACE inhibitors? Name any two prodrugs which act as ACE inhibitor along with structure. Discuss their clinical applications.
- 10. Write short note on any two :
 - a) SAR of glucocorticoids.
 - b) Cardiac glycosides
 - c) SAR of phenothiazine antipsychotics.

NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC case against the Student.