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Total No. of Pages : 02

Total No. of Questions : 13

B.Pharma (Sem.-5)
MEDICINAL CHEMISTRY II THEORY
Subject Code : BP501T
M.Code : 76786
Date of Examination : 13-12-22

Time : 3 Hrs.

Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.
3. SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.

SECTION-A

1. Write briefly :

- a) Draw structure give IUPAC name and uses of Cetrizine.
- b) What are typical structural features of H₂-receptor antagonist?
- c) Draw structures and give IUPAC names of any two pyrimidine based antimetabolite class of anticancer agents.
- d) What is the importance of calcium channel blockers in the cardiovascular disorder?
- e) What are loop diuretics?
- f) Draw structures and give IUPAC names of any two selective (β_2 -blockers.
- g) What are anticoagulants?
- h) Define oral contraceptive by citing suitable examples.
- i) What are mineralocorticoids?
- j) Give name and structures of any two selective phosphodiesterase enzyme -5 (PDE5) inhibitors?

SECTION-B

2. Classify H₁ receptor antagonists citing suitable example of each class. Give synthesis of Promethazine.
3. Classify Local anaesthetic by citing suitable examples. Give detailed SAR of these drugs.
4. Describe various classes of alkylating agents, which are used in the treatments of cancer. Give synthesis and mechanism of action of methotrexate.

SECTION-C

5. Write short note on potassium pump inhibitors.
6. Give synthesis and mechanism of chlorthiazide.
7. What are anti-arrhythmic drugs? Classify these drugs with suitable examples.
8. Discuss conformational analysis of 1,2-cyclopentenoperhydrophenanthrene nucleus present in steroids.
9. Give the structure of important thyroid hormones. Comment on physiological importance of these.
10. Describe the structures and therapeutic importance of drugs used in erectile dysfunction.
11. Write short note on anti-hyperlipidemic drugs.
12. Discuss the structure and preparation of insulin.
13. Write a short note on antibiotics which are used in cancer therapy.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.