

Roll No. 

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Total No. of Pages : 02

Total No. of Questions : 22

**B.Pharma (2017 Batch) (Sem.-5)**  
**MEDICINAL CHEMISTRY II- THEORY**  
Subject Code : BP-501T  
M.Code : 76786

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**

**Write briefly :**

1. Classify antihyperlipidemic agents.
2. Give two examples of alkylating agents acting as antineoplastics.
3. Give the chemical structure and name of Isosorbide.
4. Write the therapeutic uses of corticosteroids.
5. Give the name and structure phytoconstituent obtained from Digitalis purpurea.
6. Write a note on vinca alkaloids.
7. Give the synthetic procedure of procaine.
8. Justify the use of antimetabolites for cure of cancers.
9. Give the structure of any one first generation H1 antagonist.
10. What are antianginal agents? Give examples.

## SECTION-B

11. Discuss in detail :
  - a) ACE inhibitors
  - b) Loop Diuretics
12. Classify Antiarrhythmic agents giving moa and structure of atleast one drug from each category. Outline the synthetic procedure of Disopyramide phosphate.
13. Comment upon the nomenclature and stereochemistry of steroidal drugs. Give the structure of all sex hormones and discuss the chemistry of some important synthetic progesterons.

## SECTION-C

14. Write a note on insulin and its preparations.
15. Classify Local anesthetic agents. Give SAR of any one class.
16. Discuss the chemistry of thyroid hormone and its synthetic derivatives.
17. Comment upon the drugs used in congestive heart failure.
18. Write a note on H<sub>2</sub> antagonists.
19. What are the uses of proton pump inhibitors? Give their examples.
20. Comment upon the usage of plant products in treatment of cancers.
21. Discuss the role of calcium channel blockers in Angina Pectoris.
22. Outline the synthetic procedure of clonidine and give its uses.

**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.**