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Total No. of Pages : 02

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**M.Sc. (Pharmaceutical Chemistry) (Sem.-2)**

**CHEMISTRY OF DRUGS-I**

**Subject Code : MSPC-106**

**M.Code : 20507**

**Date of Examination : 14-12-22**

**Time : 3 Hrs.**

**Max. Marks : 80**

**INSTRUCTIONS TO CANDIDATES :**

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries SIXTEEN marks.

1. Classify vitamins with examples. Write a detail note on any one fat soluble vitamin.
2. Describe briefly :
  - a) Anti arrhythmic drugs
  - b) Clinical uses of the ACE Inhibitors and Spiranolactone.
3.
  - a) Explain drug metabolism reactions of Phase I.
  - b) Write a note on anti thyroid drugs.
4. Classify diuretics with examples. Give the synthesis of any one drug from any one class. Give its SAR, mode of action and uses.
5. Classify general anaesthetics with examples. Describe its MOA and uses.
6. Give the chemical structures and MOA of :
  - a) Digitoxin
  - b) Metformin
  - c) Atenolol
  - d) Atropine.

7. Explain in brief :

a) Hypoglycaemic agents

b) Anticonvulsants

8. Write a note on :

a) Adrenergic drugs

b) Contraceptives

(MOA is Mode of action ; SAR is Structure Activity Relationship)

**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.**