**Roll No.** | | | | | | | | | | | | **Total No. of Pages : 02**

**Total No. of Questions : 08**

**M.Sc. (Pharmaceutical Chemistry) (Sem.–3)**

# CHEMISTRY OF DRUGS-III

**Subject Code : MSPC-203**

**M.Code : 20510**

**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. Give the synthesis and specific one clinical use of following :

   a) Zidovudine

   b) Acyclovir

   c) Rimantadine

   d) Vidarabine.

2. a) Give the structure and IUPAC name of clinically used antimetabolites for the treatment of cancer.

   b) Describe the synthesis of :

      (i) Chlorambucil

      (ii) Cyclophosphamide

3. a) Write a short note on:

      (i) Antimalarial

      (ii) Alkaloids

   b) Describe the synthesis of :

      (i) Tamoxifen

      (ii) Dromostanolone propionate

4. a) Give the structure of various4-aminoquinoline derivatives used for the treatment of malaria. Briefly describe SAR of these derivatives.

   b) Give the synthesis of following drugs:

      (i) Primaquine

      (ii) Pyrimethamine

5. a) Describe the structures of various antibiotics used in treatment of fungal infection.

   b) Describe synthesis and mode of action of:

      (i) Fluconazole

      (ii) Itraconazole.

6. a) Write a short note on ultrasound contrast agents.

   b) Write a short note on iodinated diagnostic agents.

7. Write a short note on :

   a) Hormonal therapy for cancer.

   b) Biguanides as antimalarial.

8. Give the synthesis and important use of following drugs:

   a) Idoxuridine

   b) Dapsone

   c) Miconazole

   d) Thiotepa.

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