**647510** **MSC4csdC0210** **Seat No :_____**

# M.Sc.(Chem.) Semester - 4 (*CBCS*) Examination
## April/May-2022 (OLD COURSE)
## CHEMISTRY OF SYNTHETIC DRUGS(CORE)

**Time: 2:30 Hours** **Marks: 70**

**Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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Q.1 Answer any seven of the following ten questions. [14]

1. Define: Antiarrhythmic and anticoagulant agents
2. Give classification of anesthetic drugs.
3. Define NSAID drugs.
4. Enlist antitussive agents.
5. Draw structure of any one antiulcer agent.
6. Give classification of antibiotic drugs.
7. What is chemotherapy?
8. Draw the structure of Zidovudine.
9. Draw any two anti platelet and antithrombotic agents.
10. Draw the structure of paracetamol.

Q.2 Answer any two of the following three questions. [14]

1. Give synthesis of Atorvastatin drug.
2. Give uses and synthesis of Oseltamivir.
3. Write synthesis and uses of Sorafenib.

Q.3 Answer the following questions. [14]

1. Give synthesis of Moxifloxacin.
2. What is insomnia? Give the synthesis of Indiplon.
3. Define and classify analgesic drugs. Give synthesis and uses of Indomethacin.

**OR**

Q.3 Answer the following questions. [14]

1. Define antipyretic drugs? Give any two drug synthesis of antipyretic drugs.
2. Give any two synthesis of amide class of local anesthesia drugs.

Q.4 Answer the following questions. [14]

(A) Answer any two questions of the following three questions:

1. Write synthesis and uses of Ketoprofen.
2. Write synthesis and uses of Benzamine Hydrochloride.
3. Give synthesis and uses of Chloroquine drug.

(B) Answer any one question of the following two questions:

1. What is the mechanism of Inflammation? How NSAIDs works on inflammation?
2. Give synthesis of Duloxetine hydrochloride.

Q.5 Answer any two of the following four questions. [14]

1. What is antidepressant drug? Give the synthesis of Venlafaxine.
2. Define antifungal agents. Give synthesis and uses of Fluconazole.
3. Draw the structures of any two DNA alkylating agents.
4. Give classification of Central Nervous System Drugs.

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