

M.Sc.(Chem.) Semester - 4 (CBCS) Examination
April/May-2022 (NEW 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.

Q.1 (a) Answer the following	04
(1) Explain hallmarks of cancer and discuss various treatment options	
(2) What are kinase inhibitors? Give two examples with their structure.	
Q.1 (b) Answer any two question out of three.	10
Describe synthesis of following drugs:	
(1) Sorafenib (2) Fluconazole (3) Zanamivir	
Q.2 (a) Answer the following	04
(1) What are antiarrhythmic drugs? Give its classification	
(2) Discuss therapy of diuretic drugs	
Q.2 (b) Answer any two question out of three.	10
Describe synthesis of following drugs:	
(1) Telmisartan (2) Amlodipine (3) Indapamide	
Q.3 (a) Answer the following	04
(1) Explain functions of GABA and Ach neurotransmitter	
(2) Discuss classification of Anti-depressant agents	
Q.3 (b) Answer any two question out of three.	10
Describe synthesis of following drugs:	
(1) Zolpidem	
(2) Fexofenadine	
(3) Indiplon	
Q.4 (a) Answer the following	04
(1) What are NSAIDs? Discuss its mechanism of action.	
Q.4 (b) Answer the following	10
Describe synthesis of following drugs:	
(1) Indoprofen	
(2) Diclofenac	
(3) Sulindac	
Q.5 (a) Answer the following	04
(1) What is diabetes? Discuss difference between Type-I and Type-II diabetes	
(2) Give classification of drugs used for the treatment of type-II diabetes.	
Q.5 (b) Answer the following	10
Describe synthesis of following drugs:	
(1) Glyburide	
(2) Lignocaine	
(3) Benzamine	
