

DN-003-1104006

Seat No.

M. Sc. (Sem. IV) (CBCS) Examination

March - 2022

C(OP)-402: Organo-Pharmaceutical Chemistry (Chemistry of Synthetic Drugs)

Faculty Code: 003

Subject Code: 1104006

Time: 2.30 Hours] [Total Marks: 70

Instructions: (1) All questions carry equal marks

(2) All questions are compulsory.

1 Answer the followings.

14

- (a) What are hypnotics and sedative ? Give structure of phenobarbitone.
- (b) What are anti arrhythmic? Give structure of anyone.
- (c) Write the classification of oral antidiabetic agents.
- (d) What are Proton pump inhibitors?
- (e) Give the synthesis of Nalidixic acid.
- (f) Discuss the lifecycle of HIV.
- (g) What are antibiotics? What you think about broad and narrow spectrum antibiotics?
- (h) What are anti-histamines? Write the structure of any two-histamine drug.
- (i) Define the terms, Antifungal agents and write the structure of any two antifungal agents.
- (j) Write the general method for the synthesis of sulpha drugs.

	(a)	Write any three synthesis of H ₂ -receptorant agonist.	
	(b)	Give the classification of Diuretic agents and discuss synthesis of any two diuretic agents.	
	(c)	Draw the Lifecycle of malarial-plasmodium and write the synthesis of any two antimalarial agents.	
3	Answer the following.		14
	(a)	Write the classification of GI track drugs and write the synthesis of any one antispasmodic agents.	
	(b)	Give the synthesis of any two anti-asthmatics drugs.	
		\mathbf{OR}	
3	Ans	wer the following.	14
	(a)	Write the synthesis of any three antidiabetic agents.	
	(b)	Write the classification of anticancer agents and given the synthesis of any three anticancer agents.	
4	Answer the following.		14
	(a)	Classify the antitubercular agents and write the synthesis of any two second line drugs.	
	(b)	Classify anti-HIV agents and write the synthesis of any three anti-HIV agents.	
5	Ans	wer the followings (any three)	14
	(a)		
	(b)	Give the synthesis of Ibuprofen and Ketorolac.	
	(c)	Give synthesis of Thiopentone, Ketoprofen, Naproxen.	
	(d)	What are barbiturates? Explain their uses in short and explain antipyretics and give structure of Phenylbutazone.	

Answer the following (any two):

2

14