

PAG-003-010404

Seat No.

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

August - 2020

C(OP)-402: Organo-Pharmaceutical Chemistry

(Chemistry of Synthetic Drugs) (Old Course)

Faculty Code: 003

Subject Code: 010404

Time : $2\frac{1}{2}$ Hours]

[Total Marks: 70

Instructions: (1) All Questions are compulsory and carries equal 14 marks.

- (2) Draw suitable diagram / Scheme wherever necessary.
- 1 Answer any seven of the following ten questions: 14
 - (a) What are topical antifungal agents? Give synthesis of any one topical antifungal compounds.
 - (b) What do you think about broad spectrum antibiotics? Write the structure of any one broad spectrum antibiotics.
 - (c) What is HIV and what are the targets of anti-HIV drug?
 - (d) Classify the anti-tubercular agents and write the structure of any two second line Drug.
 - (e) Write the synthesis of Dicyclomine.
 - (f) Define the term Hypnotics and sedative and draw the structure of Thiopentone.
 - (g) Write the classification of Diuretics and enlist the inorganic compound used as diuretic agent.
 - (h) What are proton-pump inhibitors? Give synthesis of any two important compounds.
 - (i) Give the classification of gastrointestinal track drug.
 - (j) Write the synthesis of Chlorpromazine.

	(a)	Define, classify and give the synthesis of any two Antihypertensive drugs.	
	(b)	Write the classification of Cephalosporin drug and give at least one synthesis of first and second generation drugs.	
	(c)	Classify the anti-diarrheal drug and write the synthesis of any two of them.	
3	Answer any two of the following:		14
	(a)	Define, classify and give the synthesis of any two anti diabetic agents.	
	(b)	Define the term anti-asthmatic and write the synthesis of Salbutamol and Theophylline.	
		OR	
3	Answer any two of the following:		14
	(a)	Write the general synthesis of Sulpha drugs.	
	(b)	Write an account on quinoline and flouro quinoline drugs.	
4	Ans	wer the following:	14
	(a)	Write the synthesis of Indinavir and Zidovudine.	
	(b)	Define, classify and give the synthesis of any two anti- cancer agents.	
5	Ans	wer the following: (any two)	14
	(a)	Write the synthesis of Amlodipine and Propranolol.	
	(b)	Give the synthesis of Ibuprofen and Flubiprofen.	
	(c)	Discuss the synthesis of Valdecoxiband and Promethazine.	
	(d)	Enlist anti-malarial drug and give the synthesis of Mefloquine and Pyrimethamine.	

Answer any two of the following:

2

14