

MBT-003-1104006

Seat No.

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

April / May- 2018

C(OP)-402 : Organopharmaceutical Chemistry (Chemistry of Synthetic Drugs) (New Course)

> Faculty Code: 003 Subject Code: 1104006

Time : $2\frac{1}{2}$ Hours] [Total Marks : 70

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

- (2) Draw suitable diagram / Scheme wherever necessary.
- 1 Answer any seven of the following ten questions: 14
 - (a) Define: 'Antitussive' and 'Mucolystics'.
 - (b) What you think about broad spectrum antibiotics? Write the structure of any one broad spectrum antibiotics.
 - (c) Write the full form of "HIV" and draw the lifecycle of HIV.
 - (d) Classify the antitubercular agents and write the structure of any two first line antitubercular drug.
 - (e) What are antiarrhythmics? Write the structure of Procainamide and Metoprolol.
 - (f) Give the structure of Busulphan and Tetracycline.
 - (g) Define the terms: "Gram +ve bacteria" and "Gram -ve bacteria".
 - (h) Define the term sedative and write the structure of Chlordiazepoxide and Midazolam.
 - (i) Define the term Diuretics and classify it.
 - (j) What are tranquilizers? Classify it and write the structure of Fluphenazine.

2	Answer any three of the following:		14
	(a)	What is diabetes and types of diabetics? Give the synthesis of Glipizide and Tolbutamide.	
	(b)	Write the classification of Antitubercular agents and give the synthesis of Pyrazinamide and Ofloxacine.	
	(c)	What are antifungal agents? Write the synthesis of Clortrimazole and Miconazole.	
	(d)	Write the synthesis and application of Pyrimethamine and Progunil.	
3	Answer any two of the followings:		14
	(a)	Define and classify anticancer agents. Give the synthesis of any two anticancer agent.	
	(b)	What are" Calcium channel blockers"? Give the synthesis of Nifedipine and Amlodipine.	
	(c)	Give the synthesis of Clonidine and Prozosine.	
	(d)	Write the synthesis of any three Sulpha drugs and their use.	
4	Give the synthesis and application of the followings: (any three)		14
	(a)	Gabapentin and Lamotrigine.	
	(b)	Acylovir and Lamivudin	
	(c)	Risperidone and Sertraline	
	(d)	Valsartan and Enalapril	
5	Answer the followings: (any two)		14
	(a)	Write the synthesis of Gatifloxacine and Cefixime.	

(b)

(c)

Give the synthesis of Ibuprofen and Neproxen.

Discuss the synthesis of Salbutamol and Nimesulide.