

MBT-003-010404 Seat No. _____

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

April / May - 2018

Organo-Pharmaceutical Chemistry C(OP) - 402 : Synthetic Medicinal Chemistry (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 diabetics and types of diabetics?
 - b. Give the structure of Erythromycin and Roxitromycin.
 - c. What is HIV and what are the target of HIV drugs?
 - d. Classify the antibiotics on the bases of their mode of action and availability.
 - e. Define: Antitassive and Mucolytics.
 - f. What are proton pump inhibitors?
 - g. Define chemotherapy. Enlist disease in which chemotherapeutic agent are employed.
 - h. Define the terms "Bacteriostatic" and "Bactericidal" drugs.
 - i. Explain broad spectrum antibiotics.
 - j. Discuss the synthesis of Rosiglitazone.
- 2 Answer any three of the following:

14

- a. Write a note on antispasmodics? Give the synthesis of Propantheline bromide and Dicyclomine.
- b. Write the synthesis of 6-APA and 7-ADCA.
- c. Give the synthesis of Tolbutamide and Glibenclamide.

	d.	Write the classification of hypoglycemic agents. Give the synthesis of Chlorpropamide and Phenformin.	
3	Answer any two of the followings:		14
	a.	Write the classification of Antitubercular agents and give the synthesis of Ethambutol and Isoniazide.	
	b.	Classify anticancer agents. Give the synthesis of Cyclophosphamide and 5-Fluorouricil.	
	c.	Draw a malarial cycle and explain it briefly. Give the synthesis of Mefloquine and atovaquone.	
4	Answer the followings:		14
	a.	Define general and local anesthetic. Give the synthesis of Verapamil and Lignocaine.	
	b.	Give the general synthesis of Sulphonamide and write the structure of Silversulfadiazine and Sulfmethazole.	
5	Give the synthesis and application of the followings: (Any three)		14
	a.	Indinavir and Zidovudine	
	b.	Diclofenac sodium and Ketoprofen	
	c.	Cetrizine and Celecoxib	
	d.	Ampiciline and Efavirenz.	