

BBD-003-010412

Seat No.

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

June / July - 2021

C(OP) - 404: Advanced Medicinal Chemistry

(Organo-Pharmaceutical Chemistry) (Elective)

Faculty Code: 003

Subject Code: 010412

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

[Total Marks: 70

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

- (2) Draw suitable diagram / Scheme wherever necessary.
- 1 Answer any seven of the following ten questions: 14
 - (a) Water and Octanol are standard for determining partition coefficient, why?
 - (b) Discuss Chiral drugs with suitable example.
 - (c) Define, Pharmaco-kinetics, Pharmacodynamics and Adsorption of drug.
 - (d) Write the structure of any two resigns used for solid phase synthesis.
 - (e) Enlist the parameter studied in QSAR.
 - (f) Explain bio-transformation in which normal, occasional and rarely changes for a drug.
 - (g) Give structures of Schkimic acid and quininic acid.
 - (h) Define Agonist, Antagonist and MEC
 - (i) Explain the term distribution of drugs and disposition of drugs.
 - (j) What is considered date and term of patent in Indian patent system?

2	Answer any two out of the following:		14
	(a)	Enlist titles of Phase-II reaction.	
	(b)	Explain Phase-I reaction and Phase to reactions in details.	
	(c)	Give the synthesis of Clopidogrel and Ticlodipine.	
3	Ans	wer the followings:	14
	(a)	Enlist condition for patentability. What are types of invention which are not patentable in India.	
	(b)	Discuss in details, Hansch analysis technique in QSAR	
		OR	
3	Ans	wer the followings:	14
	(a)	What is the distinction between patented invention and innovation with examples? classification.	
	(b)	Describe general structure of granted patents.	
4	Ans	wer the followings:	14
	(a)	Write Crilead's synthesis of Oseltamavir.	
	(b)	Discuss the Coreys asymmetric synthesis of S-cetrizinedihydrochloride.	
5	Answer the followings: (Any Two)		14
	(a)	Explain "Prodrug", Classify and explain its merits with suitable example.	
	(b)	Give Roche or Sanofi synthesis of Oseltamavir.	
	(c)	Explain dose response curve with suitable example and its significance.	

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