# MANIPAL ACADEMY OF HIGHER EDUCATION

BPharm Semester IV - End Semester Examination MAY 2019 Exam Date: 02-05-2019

### Medicinal Chemistry-I [PCH-BP402T]

Marks: 75

Duration: 180 mins.

#### II Long Answers

Answer all the questions.

1) 1A Classify beta adrenergic receptor antagonist. Write the structure of one non selective and one selective beta adrenergic receptor antagonist. Explain the biosynthesis of catecholamines. 2+1+2=5 Marks

> 1B Outline the method of synthesis of propranolol and 5 Marks

2) 2A Discuss the SAR, MOA and use of barbiturates 5 Marks

(10)

(10)

2B. Write the structure and uses of

5 Marks

a) Triflupromazine

salbutamol

- b) Trimethadone
- c) Ethosuximide
- d)

Chlorpromazine

#### **III Short Answers**

Answer all	the questions.		
1)	3A Enumerate the factors effecting drug metabolism	(5)	
	3B List out the various physicochemical properties in drug action and explain any two of them. $1+4=5$ Marks		
2)	Explain the mechanism of action of general anesthetics. Enumerate the characteristics of an ideal general anesthetic. Outline the synthesis of Halothane.	(5)	
3)	Discuss how aryl carbamates act as reversible cholinesterase inhibitors. Outline the synthesis of neostigmine.	(5)	
4)	6A.What is organophosphorus poisoning? How pralidoxime act as an antidote?	(5)	
	6B. Outline the synthesis of dicyclomine $3+2=5$ Marks		
5)	Outline the method of synthesis of diazepam and phenytoin.	(5)	
5) 7)	Explain the chemistry of Narcotic antagonists giving examples. What are 4-phenylpiperidine derivatives of Morphine? Give the structural feature and give the synthesis of any one drug.	(5)	
	Write the synthesis of any one drug belonging to the class of Anthranilic acid derivatives. What is the mechanism of action of NSAIDs.	(5)	

Exam Date & Time: 04-May-2019 (02:00 PM - 05:00 PM)



# MANIPAL ACADEMY OF HIGHER EDUCATION

BPharm Semester IV End Semester Examination May 2019 Exam Date:04-05-2019

## Physical Pharmaceutics-II [PCE-BP403T]

Marks: 75	Physical Pharmaceutics-II [PCE-BP403T]	
Answer a	all the questions.  Duration  Answers	: 180 mins.
1)	Write about salient features of lyophilic colloids.	
2)	Explain the factors affecting rate of reaction.	(10)
Answer a	III Short Answers	(10)
	Discuss on 'Flocculation' in emulsion.	45
2)	Explain the flow behaviour of plastic system with rheogram.	(5)
3)	Discuss the principle of 'Falling sphere viscometer' in the determination of viscosity of Newtonian liquid.	(5) (5)
4)	Define electric double layer and show a labelled electric double layer at the surface of solid-liquid interface.	(5)
5)	Write the pharmaceutical applications of micromeritics.	
5)	Explain factors affecting flowability of powder.	(5)
)	Discuss physical degradation of dosage forms with their preventive methods.	(5) (5)

----End----

Marks: 75

Exam Daté & Time: 07-May-2019 (02:00 PM - 05:00 PM)



# MANIPAL ACADEMY OF HIGHER EDUCATION

BPharm Semester IV End Semester Examination May 2019 Exam Date: 07-05-2019

#### Pharmacology-I [PHA-BP404T]

Answ	er all the questions.	II Long Answers	Duration: 180 mins.
1)	Describe the	mechanism of action of drugs through release the examples for each class of receptors.	eceptors (10)
2)	DISCUSS the r	charmacology of any one class of antiepil example, its specific therapeutic use, ad	eptic drugs (10) verse drug
Answe	r all the questions.	III Short Answers	
1)	Describe ADM	E processing of drugs with suitable exam	
2)	Discuss any fi suitable exam	Ve types of fact	tions with (5)
3)	Explain any fiv drug example	e therapeutic uses of sympathomimetics	with one (5)
4)		rapeutic uses of skeletal muscle relaxan	· ·
5)	Explain the diag Myasthenia Gra	inosis and pharms	(5)
6)	Discuss the drug glaucoma.	gs used and their mechanism in the treat	ment of (5)
7)		S alleviate the	
		End	

Question Paper

2018-19-IV Sem-Regulars 9/5/2019

Exam Date & Time: 09-May-2019 (02:00 PM - 05:00 PM)



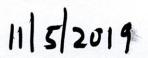
# MANIPAL ACADEMY OF HIGHER EDUCATION

BPharm - Semester -IV End Semester Examination, MAY- 2019 Exam Date:09-05-2019

Marks	Pharmaceutical Organic Chemistry-III [PCH-BP401T]	
Answe	r all the questions. Durat	ion: 180 mins
1)	Explain RS system of nomenclature of optical isomers. What a enantiomers and diastereomers? Explain	re (10)
2)-	Write one method of synthesis of pyrrole and discuss the electrophilic reactions of pyrrole with an example. Give the structure and uses of Metronidazole and Carbamazepine.	(10)
Answer	all the questions.	
1)	Explain Skraup synthesis of quinoline with mechanism.	
2)	Explain Gabriels mothers of dumoline with mechanism.	(5)
	Explain Gabriels method of synthesis of pyrimidine. Give the structure and uses of chloroquine.	(5)
3)	What is Clemmensen reduction? Explain	
1)	Explain partial asymmetric synthesis	(5)
	Explain partial asymmetric synthesis and absolute asymmetric synthesis with example.	(5)
)	Discuss the basicity of pyridine.	
1	What is a stereoselective reaction discuss with an example.	(5)
	Explain the conformation discuss with an example.	(5)
	Explain the conformational isomers of ethane and cyclohexane.	(5)
	End	
	5. BB 보다 이 전에 보고 있다. 선생님은 모든 보는 1. 15 HE	

Marks: 75

Exam Date & Time: 11-May-2019 (02:00 PM - 05:00 PM)





### MANIPAL ACADEMY OF HIGHER EDUCATION

BPharm Semester IV - End Semester Examination-2019 Exam Date:11-05-2019

Pharmacognosy and Phytochemistry-I [PCO-BP405T]

Duration: 180 mins. II Long Answers Answer all the questions. Define and discuss the various methods of adulteration of crude 1) (10)drugs. Add a note on reasons for adulteration. 2) Give a detailed account of plant growth regulators. (10)III Short Answers AI er all the questions. 1) 1. a. Define Pharmacognosy and crude drugs. (2 Marks) (5) 1. b. Hybridization and its applications. (3 Marks) Applications of plant tissue culture in Pharmacognosy. 2) (5)Discuss briefly the edible vaccines. 3) (5) 4) Give the principles of Ayurveda. (5) Define and give the classification, properties, identification tests 5) (5) and uses of Alkaloids. Give the source, preparation, chemical constituents and uses of 6) (5) Agar and Honey. 7) Write the source, method of preparation and uses of Absorbent (5) cotton.

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