Question Paper

Exam Date & Time: 10-Jun-2019 (09:30 AM - 12:30 PM)

10/6/19



MANIPAL ACADEMY OF HIGHER EDUCATION

BPharm - Semester -IV End Semester Examination, JUNE- 2019

Course Code: PCH-BP401T Course Title: PHARMACEUTICAL ORGANIC CHEMISTRY-III (THEORY) Date: 10 June 2019

Pharmaceutical Organic Chemistry-III [PCH-BP401T]

Marks: 75

II Long Answers

Duration 120 mine

(5)

Answer all the questions.

- Explain the electrophilic substitution reactions of indole with examples. Give (10) the structure of isoniazid, primaquine, sulphapyridine, acriflavin and caffeine.
- Give the structure and uses of Frusemide and nitrofuroxime. Write one method of synthesis of furan and discuss the electrophilic reactions of furan with an example.

III Short Answers

Answer all the questions.

7)

1) Give the structure and uses of chloroquine and papaverine (5)2) What is Birch reduction? Explain (5)3) What are meso compounds? Explain with examples. (5)4) What is racemic modification? Explain the methods of resolution of racemic (5) mixture. 5, Discuss stereospecific reactions with an example (5)6) Explain the stereochemistry of biphenyl compounds (5)

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Discuss the aromaticity of furan pyrrole and thiophen

7)

Exam Date & Time: 12-Jun-2019 (09:30 AM - 12:30 PM)



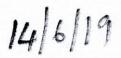
MANIPAL ACADEMY OF HIGHER EDUCATION

BPharm Semester IV - End Semester Examination JUNE 2019 PCH-BP 402T: Medicinal Chemistry I Date: 12 June 2019

Medicinal Chemistry-I [PCH-BP402T]

Marks: 7	²⁵	ation: 180 mins.
Answere	III and Annual	anon. 160 mms.
	in the questions.	
1)	1A Explain the importance of any three physicochemical properties in relation to the drug action. 5M 1B Classify general anesthetics with one example and its structure under each class. Outline the synthesis of Ketamine HCI. 5M	(10)
2)	What are Adrenergic agents? Classify them by giving one structure under each class. Explain the bio synthesis of catecholamines. Outline the synthesis of propranolol	(10)
Answer all +	III Short Answers	
2)	he questions.	
3)	Classify anticholinergics giving one structure from each class.	(5)
4)	Give the synthesis of carbachol and dicyclomine.	(5)
5)	Discuss the SAR cholinergic blockers.	(5)
6)	Classifiant	(3)
	Classify phenothiazine derivatives as antipsychotic drugs giving one structure from each class. Discuss the SAR of benzodiazepines 2+3 =5 M	(5)
7)	Write the structure	
	Write the structure and uses of a) Diazepam b) Phenobarbital c) Phenytoin d) Meprobamate.	(5)
;)	Classify opioid analgesics giving examples. Write the structure of Morphine.	(5)
)	Give the synthesis of Diclofenac and Metonamia acid Mai	(5)
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MANIPAL ACADEMY OF HIGHER EDUCATION

BPharm Semester IV End Semester Examination June 2019 PCE-BP403T: Physical Pharmaceutics II (Theory) Date: 14 June 2019

Physical Pharmaceutics-II [PCE-BP403T]

Marks: 75 Duration: 180 mins. II Long Answers Answer all the questions. 1) Explain the thixotropy measurement for plastic fluid at 'constant rate' and (10)'varying rate' of shear. 21 Explain in detail the coulter counter method for determination of particles (10)volume. **III Short Answers** Answer all the questions. 1) Write any five salient features of lyophobic colloids. (5)2) Discuss on surfactant as an emulsifier. (5)3) Write short note on wetting agent in the dispersion of solids in water. (5)4) Discuss on different factors affecting the viscosity of a liquid. (5)5) Explain DLVO theory with potential energy versus particle distance curve. (5)6) Deduce the units for specific zero order rate constant. (5)7) Explain effect of hydrolysis on the stability of drugs with their preventive (5)methods.

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Exam Date & Time: 17-Jun-2019 (09:30 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

BPharm Semester IV End Semester Examination June..2019 PHA-BP 404T: Pharmacology - I Date: 17 June 2019

Pharmacology-I [PHA-BP404T]

Marks: 75

6)

7)

II Long Answers

Duration: 180 mins.

	Long Answers		
Answer all	the questions.		
1)	Classify receptors with suitable examples. Explain G-Protein coupled sign transduction with diagram. (2+8)	al ⁽¹⁰⁾	
2	Discuss the cholinergic transmission with diagram. Mention the drugs affecting it.	(10)	
	III Short Answers		
	he questions.		
1)	Explain the combined effect of two drugs when given simultaneously or in quick succession.	(5)	
2)	With suitable examples, explain any five patient-related factors modifying drug action	(5)	
3)	Explain the mechanism of action of benzodiazepines and barbiturates with a $^{(5)}$ labelled diagram of GABA $_{\rm A}$ receptor.		
4)	Classify drugs for the treatment of depression. Explain the mechanism of action of monoamine oxidase inhibitors and serotonin reuptake inhibitors.	(5)	
5)	Define microsomal enzyme induction and inhibition with example. Mention any two consequences of each.	(5)	
6)	Explain the mechanism of actions of drugs used in the treatment of Parkinsonism.	(5)	
7)	Explain the mechanism of action General anesthetics. Mention various stages of general anesthesia.	(5)	

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