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MANIPAL ACADEMY OF HIGHER EDUCATION

B Pharm Semester II- End-Semester Examination May 2019 Exam Date:02-05-2019

Pathophysiology [PPR-BP204T] Marks: 15 Duration: 180 mins. I Multiple Choice Questions (MCOs) Answer all the questions. Explain Apoptosis with a neat diagram. (10)2) Describe the pathophysiology of acute renal failure and complications of chronic renal failure. (10)III Short Answers Answer all the questions. 1) Explain the characteristic of a cancer cell. (5) 2) Explain pathophysiology of atherosclerosis. (5)3) Explain type 1 diabetes with neat diagram. (5) 4) Explain pathophysiology of anaemia. (5) Describe the pathophysiology of tuberculosis. (5) Discuss the pathophysiology of COPD. (5)Describe the pathophysiology pf Parkinsons disease. (5)

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MANIPAL ACADEMY OF HIGHER EDUCATION

BPharm Semester II - End-Semester Examination MAY-2019 Date: 04-05-2019

Biochemistry [PBT-BP203T]

Marks: 75

Duration: 130 mins. 1 Multiple Choice Questions (MCQs) Answer all the questions. II Long Answers Define gluconeogenesis. Explain how pyruvate and lactate act as substrates for gluconeogenesis. With respect to nucleic acid metabolism, explain the following: a) RNA polymerase (10)b) Transcription unit c) Transcription termination d) Post transcriptional modification

Answer all the questions. III Short Answers Write short notes on the chemical classification and functions of 2) Write short notes on the following: a) Catabolism of IMP (5) b) Components of electron transport chain 3) A patient was diagnosed with Ochronosis. Identify the disorder associated indicating the enzyme involved, biochemical (5) manifestations, diagnosis and treatment for the same. Sketch the Krebs-Henseleit cycle. Define _-oxidation. Write about the oxidation reactions occurring (5) in the mitochondria during ...-oxidation proper. Add a note on the (5) number of ATPs generated when Palmitic acid undergoes last cycle of -oxidation proper.

Define enzymes. Enlist any four properties of enzymes and write briefly on their nomenclature.

Define the terms Km and Enzyme kinetics. Draw the Lineweaver

2018-19-II Sem - Regulars 5/2019

Question Paper

xam Date & Time: 06-May-2019 (09:30 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

BPharm Semester II - End Semester Examination May 2019 Exam Date:06-05-2019

Human Anatomy and Physiology-II [PHA-BP201T]

Marks: 75

I Multiple Choice Questions (MCQs) II Long Answers

Duration: 180 mins.

(5)

Answer	all	the	questions.	
			questions.	

- 1) Draw a neat diagram of nephron. Explain the process of tubular reabsorption. Imagine the discovery of a new toxin that blocks (10)renal tubular reabsorption but does not affect the filtration. Predict the short-term effects of the toxin. [4+4+2]2)
- Describe various secretions and physiological functions of adrenal (10) gland.

III Short Answers

Answer all the questions. Explain the following clinical terms: epidural block, meningitis and (5) 1) Explain the process of image formation in eye with suitable 2) (5) 3) Discuss the functions of different types of neuroglia. 4) While playing cricket, Mr. Gupta was hit by a bouncer, right on the (5) (5) nose. His X-ray reports revealed break of both the medial bones. Describe the structure of external nose and depict the location of Describe the functions of parasympathetic system. Write short note on resuscitation methods for respiration. (5)Describe how progesterone helps prepare the female body for (5)pregnancy and helps maintain pregnancy.

Exam Date & Fime: 08 May-2019 (09:30 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

BPharm Second Semester- End Semester Examination May 2019 Exam Date: 08-05-2019

Pharmaceutical Organic Chemistry-I [PCH-BP202T]

Marks: 75

I Multiple Choice Questions (MCQs)

II Long Answers

Section Duration: 30 mins

Duration: 180 mins.

inswer all the questions.

- 1) 1a) Discuss with an example, along with mechanism, the electrophilic (10) addition of conjugated dienes. 5 Marks
 - 1b) Explain the mechanism of E1 reaction with proper evidences.

2+3=5 marks

aswer all the questions.

-) 2a) Why acetic acid is weaker than formic acid whereas strongly (10)acidic than benzoic acid? 3 Marks

2b) Explain with mechanism Cannizzarao mechanism. 5 Marks

2c) What are the effects of substituents on acidity of carboxylic acids? Give an example. 2 Marks

III Short Answers

swer all the questions.

- Draw the structures for the following IUPAC names. $1 \text{Mark} \times 5 = 5$ Marks
- a) 2,4,4-Trimethylheptane
- b) 5-Bromo-2-Methyl-4-isopropylnonane
- c) Allyl alcohol
- d) But-2-ene
- e) 1-Bromo-3-ethyl-5-methylcyclohexane
- 2a) What is hybridization? Discuss the hybridisation in alkanes. 2 (5) Marks
- 2b) Write the mechanism of ozonolysis. Marks

3

Exam Date & Time: 10-May-2019 (09:30 AM - 11:30 AM)



MANIPAL ACADEMY OF HIGHER EDUCATION

BPharm Semester II- End Semester Examination May 2019 <u>Exam Date:10-05-2019</u>

ENVIRONMENTAL SCIENCES [PMA-BP206T]

	Marks: 50	Duration	120 mins.				
I Long Answers							
	Answer all	nswer all the questions.					
	1)	Discuss causes and effects of water pollution. Add a note on control measures to be taken to prevent water pollution.	(10)				
ţ."	2)	Explain renewable and nonrenewable resources with examples. Add note on afforestation and deforestation. $(5+5=10 \text{ marks})$	(10)				
II Short Answers							
Answer all the questions.							
	1)	Explain values of nature.	(5)				
	2)	Discuss in brief environmental ethics issues and possible solutions.	(5)				
	3)	Discuss in brief the impacts of wastes.	(5)				
4	4)	Explain ecological niches with suitable examples.	(5)				
	5)	What are the different types of ecological studies? Explain with examples.	(5)				
6	5)	Explain the structure and component of ecosystem.	(5)				
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