Exam Date & Time: 03-May-2018 (09:30 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES END SEMESTER THEORY EXAMINATIONS- MAY 2018 PROGRAM: BPHARM SEMESTER 2

DATE: 03/05/2018 TIME: 9:30 AM - 12:30 PM

Pathophysiology [PPR-BP204T]

MAnuline 7	Fatnophysiology Appr BP204T]	Control of the Contro
Answer	all the questions.	Duration: 180 mins.
1)	Explain lifecycle of malaria with neat diagram.	Too mins.
/ -		(10)
2)	Explain different factors effecting atherosclerosis.	
		(10)
	III Short Answers	
Answer a	Il the questions.	
1).	Classify Necrosis. Explain any two.	
		(5)
2)	Explain pathophysiology of COPD.	
2		(5)
3)	Write a note on macrocytic anaemia.	
• 1)	F. 11 - 11 00	(5)
0 4)	Enlist different complications of diabetes.	(5)
5)	Differentiate	(5)
	Differentiate between benign and malignant tumour.	(5)
6)	Define Inflammation Europein al	(3)
	Define Inflammation. Explain phagocytosis with a neat diagram.	(5)
7)	Explain pathophysiology of Parkinson's disease.	(0)
	paragraphic following of Farkinson's disease.	(5)
End		
	그가 보이고 아이를 가면 보다 있는 그 집에 없는 것이 없는 그가 되었다면 살아 없었다. 그는 사람들이 되었다는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다면 모든 것이다.	

Exam Date & Time: 05-May-2018 (09:30 AM - 12:30 PM)

childs (1)

MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES END SEMESTER THEORY EXAMINATIONS - MAY 2018 PROGRAM: BPHARM SEMESTER 2

DATE: 05/05/2018

TIME: 09:30 AM - 12:30 PM Pharmaceutical Organic Chemistry-IslPCH-BP202T] Marks: 75 II Long Answers Duration: 180 mins. answer all the questions. I Multiple Choice Questions (MCQs) 1) 1a) Discuss with an example, along with mechanism, the electrophilic addition of conjugated dienes. 05 M 1b). Give any one reaction with an equation for the following mechanisms: 05 M (10)i) concerted reaction b) dehydration reaction 2) 2a). Give the mechanism and evidences for E2 reactions. 2b). Explain with mechanism - Cannizzarao mechanism. 05 M 05 M (10)III Short Answers Answer all the questions. 1) 1. Draw the structures for the following IUPAC names. 1Mx5 = 5Ma) 2,4,4-Trimethylheptane b) 5-Bromo-2-Methyl-4-isopropylnonane c) Allyl alcohol 3 (5) d) But-2-ene e) I-Bromo-3-cthyl-5-methylcyclohexane 2) 2a). What is hybridization? Discuss the hybridization in alkanes. 2b). Why acetic acid is weaker than formic acid? 3 M 2 M (5)3) Explain with reactions, the mechanism for the chlorination of cyclohexane. (5)4. Define the following reactions with an example. a) Diels-Alder reaction b) Markovnikov's rule of addition (5)What is Claisen-Schmidt reaction? Discuss with an example. (5)6a) Discuss the mechanism, kinetics, stereochemistry involved in SN2 reactions. 3M 6b) Why polar aprotic solvents are preferred for SN2 reactions? (5)Give the structure and uses of the following compounds: 5xIM = 5M. a) methyl salicylate b) paraldehyde c) ethyl chloride d) glycerol e) lactic acid (5)

L.xam Date & Time: 07-May-2018 (09:30 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES END SEMESTER THEORY EXAMINATIONS- MAY 2018 PROGRAM: BPHARM SEMESTER 2

DATE: 07/05/2018 TIME: 9:30 AM - 12:30 PM

Human Anatomy and Physiology-II [PHA-BP201T]

Marks: 75

Answer all the questions. 1) Explain the sequence of events that generate neuronal action potential Explain the process involved in synthesis, storage, release and action of transmitters 2) (10)in ANS (10) III Short Answers Answer all the questions. 1) Discuss the physiology of hearing 2) Describe the anatomy of lungs (5)3) Discuss the reabsorption process in proximal convoluted tubule (5)4) How is blood glucose level maintained by glucagon and insulin (5) 5) Describe the process of oogenesis (5) 6) Classify hormones secreted by posterior pituitary gland. Explain the actions of ADH (5) 7) Describe the anatomy of kidney (5) ----End----(5)

Exam Date & Time: 09-May-2018 (09:30 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES END SEMESTER THEORY EXAMINATIONS - MAY 2018 PROGRAM: BPHARM SEMESTER 2

DATE: 09/05/2018 TIME: 09:30 AM - 12:30 PM Biochemistry [PBT-BP203T]

II Long Answers

Marks: 75

I Multiple Cu

Duration: 180 mins.

(5)

nswer all the questions. Mention the synonyms for aerobic oxidation of glucose in cytosol and sketch the pathway. Add a note on its energetics. (10)2) With respect to nucleic acid metabolism, explain the following: a) Genetic code b) Steps in transcription process (10)III Short Answers Answer all the questions. Define the terms exergonic and endergonic reactions with an example for each. Add 1) a note on redox potential. (5) 2) Write short notes on the following: a) Degradation of IMP (5)b) Components of electron transport chain Give the enzyme defect, clinical manifestations, diagnosis and treatment associated 3) with alkaptonuria. (5)4) Sketch the urea cycle. (5)5) Define β -oxidation. Write briefly on carnitine shuttle system. (5)Define enzymes. Enlist any four properties of enzymes and write briefly on their 6) nomenclature. (5)Give the IUB classification of enzymes, citing suitable reaction under each class. 7)

Exam Date & Time: 11-May-2018 (09:30 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES END SEMESTER THEORY EXAMINATIONS- MAY 2018

PROGRAM: BPHARM SEMESTER 2 DATE: 11/05/2018

TIME: 9:30 AM - 11:30 PM

ENVIRONMENTAL SCIENCES [PMA-BP206T]

	ENVIRONMENTAL SCIENCES [PMA-BP2061]	
Marks: 50	Duration:	120 mins.
	I Long Answers	
Answer al	I the questions.	
1)	Discuss causes, effects and control measures of Water pollution.	(10)
2)	Explain renewable and nonrenewable resources with examples. Add a note on afforestation and deforestation. (5+5=10 marks)	(10)
	II Short Answers	
Answer all	the questions.	
1)	Explain in brief water, mineral, food, energy and land resources.	(5)
2)	Discuss in brief issues involved in enforcement of environment legislation.	(5)
3)	Discuss in brief Solid waste management.	(5)
4)	Briefly describe the procedure for nitrogen recycling in the ecosystem.	(5)
5)	What do you mean by sub-climax? Explain different types of sub-climax with examples.	(5)
6)	Define Biodiversity. Explain various threats to biodiversity with examples.	(5)
End		