Question Paper

Exam Date & Time: 08-Jul-2023 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Instructions: Answer ALL questions.

Medicinal Biochemistry [PBT 1.3T-S3]

Marks: 70 Duration: 180 mins.

Section A		
Answer all the	questions.	
Long Answer Qu	uestions (3 x 10 marks = 30 marks)	
1)	Explain the citric acid cycle and discuss its energetics.	(10)
2)	Write the steps involved in the synthesis of urea. Write short notes on the energetics, regulation, and disorders associated with it.	(10)
3)	Discuss the clearance tests used to assess kidney function.	(10)
	Section B	
Answer all the questions.		
Short Answer Questions (6 x 5 marks = 30 marks)		
4)	Schematically represent the electron transport chain (ETC) and explain its function.	(5)
5)	What are isoenzymes? Explain their role in the diagnosis of diseases.	(5)
6)	What is ketogenesis? Write the reactions involved in the synthesis of true ketones.	(5)
7)	Explain the principle involved in the estimation of total cholesterol and HDL cholesterol.	(5)
8)	Write a note on base-excision DNA repair.	(5)
9)	Describe the mechanism of transcription in eukaryotes.	(5)
	Section C	
Answer all the questions.		
Give Reasons for	or the Following (5 x 2 marks = 10 marks)	
10)	Lysosome is regarded as the digestive tract of the cell.	(2)
11)	Fisher's template theory fails to explain the effect of allosteric modulators.	(2)
12)	Cause of acute intermittent porphyria and porphyria cutanea tarda.	(2)

----End-----

Hemolyzed samples are not suitable for the estimation of sodium and potassium.

Causes of neonatal physiologic jaundice.

13)

14)

(2)

(2)