UNIVERSITY OF JAFFNA, SRI LANKA FACULTY OF ALLIED HEALTH SCIENCES FIRST YEAR FIRST SEMESTER EXAMINATION IN BPharmHons-2023

PHABP 1153 BIOCHEMISTRY FOR PHARMACY I (14th Batch)

PAPER-II

Date: 16.12.2024 Time: 2 Hours

ANSWER ALL THE SIX QUESTIONS IN SEPARATE ANSWER BOOKS.

4	Explain how			
	1.1	dietary starch is digested in different parts of the gastro intestinal system.		
		(40 Marks)		
	1.2	glucose is absorbed in the enterocytes and enters the skeletal muscle. (30 Marks)		
	1.3	iron is absorbed into the intestinal mucosa. (30 Marks)		

- 2. 2.1 'Neonatal physiological jaundice', Explain. (10 Marks)
 2.2 List the probable causes of neonatal physiological jaundice. (25 Marks)
 2.3 Explain with reasons the biochemical changes that you expect in the serum, urine and the faeces of the infants affected by neonatal jaundice patients. (30 Marks)
 2.4 Name the tests that could be carried out with serum and urine to confirm the condition. (12 Marks)
 2.5 Give the principle of the test that would be carried out in the serum of the patient. (13 Marks)
 2.6 Name the treatment that is commonly practiced to treat the new born babies with the
 - 2.6 Name the treatment that is commonly practiced to treat the new born babies with the above condition? (10 Marks)

3.	3.1	Diagrammatically show and label the structure of an antibody.	(40 Marks)		
	3.2	Diagrammatically show how the serum electrophoretic pattern of the	ne plasma proteins of		
		a nephrotic syndrome patient differs from that of a normal person.	(20 Marks)		
	3.3	Explain the homeostasis of serum calcium.	(40 Marks)		
4.	4.1	Explain how the vitamin B ₁₂ deficiency			
		4.1.1 is caused.	(25 Marks)		
		4.1.2 causes anaemia.	(25 Marks)		
		4.1.3 causes methylmalnoic aciduria.	(25 Marks)		
	4.2	Glucokinase and hexokinase having different Km values for glucose	e is beneficial to the		
		body. Explain.	(25 Marks)		
5.	Wri	Write short notes on			
	5.1	posttranslational modification of collagen.	(30 Marks)		
	5.2	principle of electrophoresis.	(15 Marks)		
	5.3	isoelectric pH of amino acids.	(15 Marks)		
	5.4	salting in and salting out.	(20 Marks)		
	5.5	structure of a hair.	(20 Marks)		
6.	5. 6.1 List the different enzymes and proteins that are involved with DNA replication and				
		their respective functions.	(25 Marks)		
	6.2	Write short notes on cholesterol.	(20 Marks)		
	6.3	Explain how cells self-regulate energy production.	(25 Marks)		
	6.4	Expalin the basis of the classification of blood group antigens.	(30 Marks)		

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