



RO-1545-R

First Year M.B.B.S. Examination

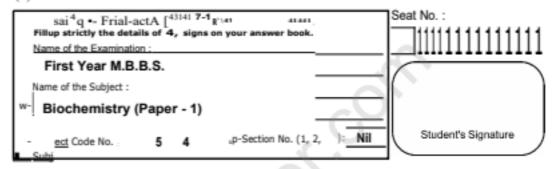
June - 2010

Biochemistry (Paper - I)

Time: 2 Hours] [Total Marks: 50

Instructions

(1)



- Figures to the right indicate full marks.
- Draw diagrams where appropriate.
- 1 Write down different types of protein structures. How different structure of protein are stabilized?

or

- Describe Heam synthesis and its regulation, enumerate porphyrias.
- 2 Read the following case and answer the following questions: 10

A three day old neonate was brought to pediatric nursery with yellow discoloration of sclera and skin. His total bilirubin was 9 mg/di (Normal range: 0.1-1.0 mg/di). Pediatrician diagnosed as a case of physiological jaundice. The patient was advised phototherapy and recovered in 24 hrs.

- (a) What is the cause of physiological jaundice?
- (l3) What is the difference between direct and indirect bilirubin?
- (c) What is the role of phototherapy in this case ?
- (d) What are other causes of unconjugated hyperbilirubinimia?
- (e) What type of hyperbilirubinimia is seen in obstructive jaundice?

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3	Write short notes on : (any three)		9
	(a)	Lysosomes and Peroxysomes	
	(b)	ELISA	
	(c)	Eicosanoids	
	(d)	Applications of raclioisotops in medicine	
	(e)	Bile salts.	
4	Write notes on: (any two)		10
	(a)	Functions of plasma proteins	
	(b)	Mucopolysaccharides	
	(c)	Electrophoresis	
	(d)	Structure of collagen.	
5	Cor	nment on / justify in 2-3 sentences : (any five)	10
	(a)	Sucrose is a non-reducing disaccharide.	
	(b)	HDL cholesterol is "Good cholesterol".	
	(c)	Allopurinol is used in the treatment of gout.	
	(d)	Denaturation of proteins in food is biologically	
		advantageous.	
	(e)	Glucose is required for the absorption of Na+.	
	(f)	Proline does not allow forming alpha helix.	
	(g)	Selective COX2 inhibitors reduce gastric side effects of	
		Selective COX2 inhibitors reduce gastric side effects of NSAIDS.	

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