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#11141111111,0111111P11111111))1101111 RO-1545 First Year M.B.B.S. Examination June - 2010 Biochemistry (Paper - I)

Time : 2 Hours]

[Total Marks : 50

Instructions

(1)

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Name of the Examination	:				
First Year M.B.E	8.S.				
Name of the Subject :					l()
w- Biochemistry (P	aper	- 1)			
- <u>ect</u> Code No.	5	4	_u p-Section No. (1, 2	2,): Nil	Student's Signature

- (2) Figures to the **right** indicate full marks.
- (3) Draw diagrams where appropriate.
- 1Write down different types of protein structures. How11different structure of protein are stabilized ?

OR

- 1 Describe Heam synthesis and its regulation, enumerate 11 porphyrias.
- 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 ?
 - (13) 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	Wr	te short notes on : (any three)	9				
	(a) Lysosomes and Peroxysomes						
	(b)	ELISA					
	(c)	Eicosanoids					
	(d)	Applications of raclioisotops in medicine					
	(e)	Bile salts.					
4	Wr	rite notes on : (any two)					
	(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)						
	(g)	Selective COX2 inhibitors reduce gastric side effects of					
		NSAIDS.					
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