

Z-4653 Seat No.___ First Year M.B.B.S. Examination February - 2006 **Biochemistry - Paper - II**

Time : **3** Hours]

a. .

[Total Marks : 50

6

10

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- Each section should be answered in separate **Instructions** : (1) answer books.
 - Answers should be brief and to the point. (2)

SECTION - I

1	State	e tr	rue c	or false	e with j	justification	on	: (any	six)
	(a)	In	ana	erobic	glycolys	sis pyruvate	is	produc	ed.

- Rapaport leubering cycle is beneficial to RBC. (b)
- Fat can not be metabolised in the absence of (c) carbohydrates.
- Bile salts are not required for fat digestion and (d) absorption.
- In alkaptonurea, urine turns black on exposure to air. (e)
- Salvage pathway is more economical than de-nove (f) synthesis.
- Carnitine is essential for oxidation of all types of fatty (g) acids.
- In ETS P : O ratio is always 3. (h)

2 Discuss the following :

- Glycogen storage diseases. (a)
- Disorders of aromatic amino acid metabolism. (b)

3 Write short notes on : (any three)

- (a) Diabetes mellitus
- (b) Glycolysis
- (c) GTT
- (d) Urea cycle
- Lipids : digestion, absorption and transport (e)

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[Contd...

SECTION - II

4	Give	e your comments with justification on : (any \mathbf{six})	6			
	(a)	Citric acid cycle does not operate in RBC.				
	(b)	Hyperuricemia is seen in Von Gierke's disease.				
	(c)	Uncontrolled diabetes will lead to metabolic acidosis.				
	(d)	L CAT deficiency leads to atherosclerosis				
	(e)	High HDL - cholesterol level is a welcome sign.				
	(f)	Iron defeciency anemia can be produced in vitamin C deficiency.				
	(g)	Calcuium deficiency leads to osteomalacia.				
	(h)	Aspirin is used as an anti-inflamatory drug.				
5	Dice		10			
J	(n)	Home biosynthesis and regulation	10			
	(a) (b)	Motobolic resolutions of glucino				
	(0)	Flectron transport system				
	(0)	Election transport system.				
6	Write short notes on : (any three)					
	(a)	pH and its regulation				
	(b)	Ca ⁺⁺ metabolism				
	(c)	PEM				
	(d)	Conjugation				
	(e)	Ketogenesis.				

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