15459	(Pages:3)	Name
		Reg. No

FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, MAY 2011

(CCSS)

Complementary Course—Biochemistry

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complementary c	Journe Broomstry	
BC4 C13—ENZYMOLO	GY AND METABOLISM—II	
	Maximum: 30 We	
Time: Three Hours		
 I. Answer all twelve questions: — 1 Which among the following are involved: 	red in the emulsification of lipids ?	
(a) bile salt.(c) Phospholipid.	(b) Peristalsis.(d) All of these.	
2 Split fat in faeces is seen in: (a) Steatorrhea.	(b) Pancreatic deficiency.	
(c) defective absorption.	(d) None of these. across the mitochondria with the help of *	
(a) glycerol. (c) carboxylase.	(b) thiokinase.(d) carnithine.	
4 The rate limiting step of cholesterol (a) acetyl CoA synthase. (c) Transferase.	(b) HMG CoA reductase. (d) Squaline synthase.	
 7 Renin is a: (a) proteolitic enzyme. (b) hormone. (c) hormone RNA is investigation. 	(b) milk protein.(d) growth factor.volved in amino acid activation?	
 (a) mRNA. (c) rRNA. 7 Which of the following is a posttr 	(b) tRNA. (d) SnRNA. ranscriptional modification?	
(a) phosphorylation.	(b) ubiquitination.(d) polyadenylation.	

(c) adenylation.

Turn over

8 Which among the following is a start codon?		C 1
(a) AUG. (c) UGA.	(b) UAG.	
	(d) UGC.	
(a) Vitamin (c) Vitamin 10 Deficiency of Ni (a) Beriberi (c) Nictalop 11 The coenzyme ir (a) TPP. (c) Biotin.	(b) Vitamin C. (d) Vitamin \mathbf{B}_2 . iacin leads to: (b) Pellagra. ia. (d) Xerophthalmia. nvolved in carboxylation reaction is: (b) FAD. (d) CoA. of intracellular fluid is:	
(c) Ca2+.	(b) K+. (d) Mg2+.	
14 Mention any two for the second sec	nation? Give an example. functions of phospholipids. es? fragments? ons? a of genetics. 1 importance of potassium.	(12 x = 3 weightage
	bsorption of lipids in the body. tive pathway for phenylaline.	(9 x 1 = 9 weightage)

- 25 Describe the major post transcriptional modifications.
- 26 Describe the physiological functions of (a) Vitamin D (b) Vitamin $^{\mathrm{B1}}$.
- 27 List out the physiological functions of (a) Glucagon. (b) Epinephrine.
- 28 Write note on the biological role and the nutritional importance of (a) Iron (b) Copper (5 x 2 = 10 weightage)

IV. Answer *two* questions from 3:

- 29 Explain the biosynthesis and degradation of fatty acid.
- 30 Describe urea cycle.

31 Explain the ribosomal events that take place during the translation of

 $(2 \times 4 = 8 \text{ weightage})$