C 83	36 56	(Pages : 2)	Name
			Reg. No
SECOND SEMESTER M. Sc. DEGREE EXAMINATION, JUNE 2015			
		(CUCSS)	
General Biotechnology			
GB 2C 1—METABOLISM AND BASIC ENZYMOLOGY			
Time:	: Three Hours		Maximum: 36 Weightage
	Sec	tion A (Very Short Answer	
Answer all the ten questions with one or two sentences.			
Each question carries a weightage of 1.			
1.	Free energy.		
2.	Non-competitive inhibition.		
3.	Redox potential.		
4.	Metaloenzyme.		
5.	Immobilization.		
6.	Heteropolymere.		
7.	Disulfide bond.		
8.	Ribozyme.		
9.	Anaerobic glycolysis.		
10.	Coenzyme Q.		
			$(10 \times 1 = 10 \text{ weightage})$
Section B (Short Answer)			
		nswer any seven questions. _l uestion carries a weightage o	f 2.
11.	Discuss about factors effecting	enzyme activity.	
12.	Give an account on multienzym	e complex with suitable exan	nple.
13.	Explain Biosynthesis of purine.		
14.	Describe urea cycle and its sign	ificance.	
15.	Describe pentose phosphate pat	thway.	
16.	Give a brief account on regulati	on of metabolic pathways.	
17.	Discuss about β-oxidation of fat	ty acid.	

18. Describe different types of immobilization.

Turn over

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- 19. Explain purification methods for enzyme.
- 20. List out any three high energy compounds and explain how they generate.

 $(7 \times 2 = 14 \text{ weighta})$

Section C (Essay Questions)

Answer any **two** questions. Each question carries a weightage of **6**.

- 21. Explain classification and nomenclature of enzymes with suitable examples.
- 22. Describe electron transport chain and its significance.
- 23. Describe biosynthesis and degradation of any two amino acid.

 $(2 \times 6 = 12 \text{ weightage})$