OPEN BOOK EXAMINATION (OBE) MODE

This question paper contains 1 printed page]

	Sr. No. of Question Paper	Roll No
	Unique paper Code: 42234301_OC Name of the paper: Physiology and Biochemistry Name of the Course: B.Sc. (P) Life Sciences Semester: III Duration: 3 Hours Maximum Marks: 75	
	Instructions for Candidates	
	Attempt 4 questions in all including 2 questions fro All questions carry EQUAL MARKS	om section A and 2 from Section B.
	Write your Roll No., Name of the paper, Course, Se on the first page of answer sheet.	
(P)	Draw neat and well labelled diagrams wherever ne	cessary.
	(Section A)	

- Q1. What is the smallest contractile unit of the muscle? How does the muscle proteins slide past each other to generate movement? 18.75
- Q2. Give a brief-account of the mechanism used to concentrate urine in the kidneys by the nephrons of the human excretory system? What is the structure and function of nephron? 18.75
- Q3. Carbohydrates are not chemically broken down in the stomach. How carbohydrates are digested and absorbed?Where to es chymotrypsin take action? 18.75

(Section B)

- Q4. Give a detailed account of glycogenesis and glycogenolytic pathway. Explain how glycogenolysis is different from gluconeogenesis? 18.75
- Q5. Explain ✓-oxidation of fatty acids.

18.75

Q6. What evidences suggest the formation of enzyme substrate complexes. Explain the relation between rate of reaction and concentration of substrate. 18.75