5.	(a)	Classify Lipids giving examples. 4		AR - 520		
	(b)	Describe \(\beta - \text{oxidation of fatty acid.} \) 4	Second Semester B. Sc. (Part-I) Examination			
	(c) (p)	What do you understand by essential fatty acids? Give examples. OR Give deficiency effects of fatty acids. 4 Discuss nutritional importance of fats. 4	(N P. Pages : 5 Time : Three I Note : 1. (A) Fi	2 S - FOOD SCIENCE (utritional Biochemistry of Foods)		
23.	(b)	Describe the functions of calcium. 4 Give the important functions of Vitamin – D. 4 Give deficiency symptoms of Vitamin – B_1 . 4 OR	(ii	i) The amino acids which forms carbo hydrates are called as i) The Fatty acids which should be included in diet are known as ii) is a Fat Soluble Vitamin which function in visual cycle.		
		Describe the role of Vitamin-A in visual cycle. 4 Describe nutritional deficiency effects of Iron.	the	noose the correct alternative to complete e statement :— Energy yield from anaerobic glycolysis is (2 ATPs, 8 ATPs)		
AR -	526	4 :	AR-526	P.T.O		

	(ii) HCl is the constituent of	!	3.	Desc	cribe the following:—
	(Gastric juice, Pancreatic juice)			(a)	Digestion of carbohydrate.
	(iii) The first enzyme which convert glucose to Glucose 6-Phosphate is	1		(b)	Energy yield of glycolysis.
	(Amylase, Hexokinase)	!		(c)	Nutritional importance of carbohydrates.
	(iv) The sugar present in the milk is				OR
	(Lactose, Galactose) 2			(p)	Conversion of carbohydrates to Fat.
	(C) Answer the following in one sentence:—			(q)	Oxidative decarboxylation of pyruvate to acety COA.
•	(i) Name the enzymes in pancreatic juice that digest protein.			(r)	Synthesis of glycogen from glucose.
	(ii) Name any two essential amino acids.	1) 4	4.	(a)	Define and classify enzymes.
	(iii) Which is the protein found in Egg White?			(b)	Describe the effect of temperature on enzyme
	(iv) Name the reserve carbohydrate stored in liver and muscle.				activity.
	Alex and masses			(c)	Describe intestinal digestion of carbohydrates
2.	Describe in detail digestion and absorption of				OR
	dietary proteins.			(p)	Describe composition and functions of saliva
	OR			(a)	How one distant mostains dispoted in atoms to
	Describe the nutritional importance of protein. Give			(q)	How are dietary proteins digested in stomach
	effect of deficiency of protein. 12			(r)	Describe the effect of pH on enzyme activity
AR	2-526 2		AR-	-526	3 P.T.O

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- (r) Give important function and deficiency effects of Vitamin-C.
- 7. Describe in detail importance of water in body. "Water as a nutrient" Explain.

OR

Describe principle and applications of any one analytical technique used in Biochemistry. 12



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