	(d)	Give the functions of fatty acid.	4
	(e)	What are lipids? Give it's classification.	4
	(f)	What are saturated and unsaturated fatty aci	ds ?4
6.	(a)	Give an account function, sources of Vitamir	n D. 4
	(b)	Describe the Vitamin A with Hypervitaminos Deficiency Symptoms.	is and 4
	(c)	Give the importance (physiological) of Vitam	in B1.
		OR	
	(d)	Explain the deficiency of Vitamin C.	4
	(e)	Give the role of Vitamin K in body.	4
	(f)	Classify Vitamin and Minerals.	4
7.	Disc	cuss about spectrophotometry with principle and	uses.
		Yellhezer in action persistential stands of	12
		OR	
	Def	ine chromatography, with principle and uses.	12

Tim	ne : T	hree	Hour	[Maximum Marks :	80		
	Note :-		(i)	ALL questions are compulsory.			
			(ii)	Diagrams and chemical equations sho be given wherever necessary.	uld		
1.	(A)	Fill in the blanks with suitable word:					
		(i)	The	e average Nitrogen content of proteins	s is		
		(ii)	of I	is the enzyme present in the stome	ach		
		(iii)		is the largest gland in human body	y.		
		(iv)	The	main salivary enzyme is	2		
	(B)	3) Choose the correct options:					
		(i)		e enzyme of saliva that breaks do pohydrate is :	wn		
			(a)	Protease			
			(b)	Amylase			
			(c)	Lipase			
			(d)	Oxidase			
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B.Sc. (Part-I) Semester-II Examination 2S: FOOD SCIENCE (Nutritional Biochemistry of Foods)

(Contd.)

(ii) Rickets is a disease called by the deficiency of: (a) Vitamin A (b) Give an account of functions of (c) Vitamin D (d) Vitamin B ₃ (iii) In what form does the products of glycolysis enter the TCA cycle. (a) Acetyl Co-A (b) Give an account of functions of (c) Enlist the major pathways metabolism. OR (d) Explain TCA cycle (e) Explain the digestion of carbohy (b) Pyruvate (f) Define role of Acetyl Co. A	
(b) Vitamin C (c) Vitamin D (d) Vitamin B ₃ (iii) In what form does the products of glycolysis enter the TCA cycle. (a) Acetyl Co-A (b) Pyruvate (c) Enlist the major pathways metabolism. OR (d) Explain TCA cycle (e) Explain the digestion of carbohy (f) Define role of Acetyl Co. A	4
(c) Vitamin D (d) Vitamin B ₃ (iii) In what form does the products of glycolysis enter the TCA cycle. (a) Acetyl Co-A (b) Pyruvate (c) Einist the major pathways metabolism. OR (d) Explain TCA cycle (e) Explain the digestion of carbohy (f) Define role of Acetyl Co. A	carbohydrates. 4
(c) Vitamin D (d) Vitamin B ₃ (iii) In what form does the products of glycolysis enter the TCA cycle. (a) Acetyl Co-A (b) Pyruvate (c) Vitamin D (d) Explain TCA cycle (e) Explain the digestion of carbohy (f) Define role of Acetyl Co. A	of carbohydrate
(iii) In what form does the products of glycolysis enter the TCA cycle. (a) Acetyl Co-A (b) Pyruvate (d) Explain TCA cycle (e) Explain the digestion of carbohy (f) Define role of Acetyl Co. A	4
enter the TCA cycle. (a) Acetyl Co-A (b) Pyruvate (d) Explain TCA cycle (e) Explain the digestion of carbohy (f) Define role of Acetyl Co. A	
(b) Pyruvate (f) Define role of Acetyl Co. A	elleselt on 4
(a) Define total of facetyl Co. It	irate. 4
	in carbohydrate
(c) NADH metabolism.	4
(d) Glucose	
(iv) Iodine is a part of thyroid hormone and is essential for the prevention of: 4. (a) What are co-enzymes? Give ex	amples. 4
(a) Goiter (b) Give the classification of enzyme	s. 4
(b) Osteoporosis (c) Discuss about enzymes specificit	y. 4
(c) Muscle weakness OR	
(d) Diarrhea 2	
(C) Answer in one sentence:	
(a) What is Metabolism of food? (e) Describe the mechanism of enzy	me actions. 4
(b) What is Glycogenesis? (f) What is enzymes inhibition? Ex	plain any one. 4
(c) What are Enzymes?	
(d) What is PER? 1 each 5. (a) Explain the essential fatty acid.	4
 Define Metabolism anabolism and catabolism of food in (b) Discuss the digestion of fat. 	- 4
digestive system. Explain. 12 (c) What are the effects of excess to	at in body? 4
OR OR	
Discuss about protein quality with nitrogen balance. 12	
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