6.	Write the following questions:				AP-409			
	(A) Iodine number of fat.	4						
	(B) Classify fatty acids.	4	-	B.Sc.	(Part-I) Semester-I Examination			
	(C) Physical and Chemical properties of fat and oil.	4	•		18 : FOOD SCIENCE			
	OR		(Basic Chemistry of Foods)					
	(D) Rancidity of fat and oil.	4						
	(E) Define saturated and unsaturated fatty acid with examples.	itwo 4	Time—T	hree l	Hours] [Maximum Marks—80			
	(F) Saponification value of fat.	4	N.B. :-	(1)	ALL questions are compulsory.			
7.	What are Vitamin? Classify them, give sources, chemist water soluble and fat soluble vitamins.	try of 12		· ·	Draw diagrams, equation and reaction wherever necessary.			
	OR			(3)	Question Nos. 2 to 7 carrying equal marks.			
	Define and classify minerals. Discuss importance of Iron Calcium.	n and 12	1. (A)	(i) (ii)	Normal range of cholesterol in human body is Carbohydrates having six carbon atoms including an aldehyde group are known as			
			(B)	(iv)	Long form of BMI is The general formula of carbohydrate is sose the correct answer: 2			
				(i)	The citrus fruit are rich in vitamin: (a) Vitamin'A' (b) Vitamin'B' (c) Vitamin'C' (d) Vitamin'E'			
UV	7O—45304 4	125	UWO45	304	1 (Contd.)			

	(ii)	Which element is not found in Carbohydrate:			3.	What is BMR? Explain the factors affecting BMR. 12			
_	-	(a) Sulfur	(b) Carbon			OR			
	(iii)	c) Oxygen (d) Nitrogen Dietary fibers are:				What are basic food group? Which nutrients occur in it and give calorific value of foods?			
		(a) Proteins	(b) Carbohydrates	5.	4	Describe the following:			
		(c) Fats	(d) Vitamins		4.				
	(iv)	The pH of acidic substances is:				(A)	Polysaccharides.	4	
		(a) Below 7	(b) Above 7			(B)	Role of fiber in diet.	4	
		(c) Equal to 7	(d) None of these			(C)	Classification of carbohydrates.	4	
(C) Ans	swer in one sentence:		4		4	OR		
	(i)	(ii) What is fat soluble vitamins?		ins?		(D)	Pectic substance.	4	
	. ,					(E)	Nutritional importance of carbohydrates.	4	
	(iii) (iv)	Define Denaturation Define equivalent we	Define Denaturation. Define equivalent weight.			(F)	Give importance of monosaccharides.	4	
2. W	Write the following questions:			5.	Ans	swer the following questions:			
(A				4		(A)	Define protein.	4	
(B				4		(B)	Classification of amino acids.	4	
(C) Des			4		(C)	Factors affecting denaturation of protein.	4	
		OR					OR		
(D) Wr	ite on Viscosity.		4		(D)	Essential amino acids with food sources.	4	
(E	(E) What are unit operations? Give the classification example.			with 4		(E)	Properties of proteins.	4	
(F		fine sol, gel and emulsi	on. Give the example.	4		(F)	Function of proteins.	4	
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