

www.FirstRanker.com

www.FirstRanker.com

Seat	No.: _		Enrolment No					
			-IV (NEW) EX rition & Bio M s. ptions whereve	Total Marks: 70 wherever necessary.				
Q.1	(a) 1 2 3	Introduce the following terms briefly.0Trans fat0Nutrient Enrichmentβ oxidation of fatty acids						
Q.1	(b) 1 2 3 4	Do as directed.04Oils and fat are placed at an apex of food guide pyramid. Justify.Economic status affects on the nutritional status of human being. Justify.State two pro-vitamins for Vitamin D.Enlist any four enzyme name used in food processing.						
Q.1	(c)	Define Nutrition. Explain the factors affecting human nutrition. 0					07	
Q.2	(a) (b) (c)	Calculate Quetlet Index for a person whose weight and height are 65 kg and 5 feet 6 inches respectively. Comment on the obesity grade. Enlist the classification groups of enzymes depending on the role in a catalyzed reaction. Define balanced diet. Briefly explain the classification of balanced diet on the basis of production cost. Enlist ICMR (Indian Council of Medical Research) recommendations for formulating balanced diet. OR						
	(c)	OKPotato stuffed paratha (240g) was prepared from wheat flour and potato in the ratio 2:1. The prepared paratha was shallow fried with 20 g butter. Calculate the energy or calorific value of fried paratha. Nutrient composition of ingredients as follows.0ParameterPotatoWheat flourWaterButterCarbohydrate, %2065NilNil						

Q.3 (a) Enlist the daily requirement for the following vitamins

2

0.1

i) Thiamin

Protein, %

Fat, %

10

2

Nil

Nil

03

1

Nil

80

FirstRanker.com

www.FirstRanker.com

		ii) Vitamin Eiii) Vitamin B₃					
	(b)	State WHO/FAO guidelines for food fortification.	04				
	(D) (C)	Explain the functions of protein in human nutrition.	04				
	(C)	OR	07				
Q.3	(a)	Differentiate between active and passive transport of nutrients in human.	03				
Q.J	(a) (b)	1 1					
	(0)	i) Gastric secretion					
		ii) Bile secretion					
	(c)	Define Glycolysis. Discuss the steps including substrate, enzyme and energy	07				
	consumed or liberated.						
Q.4	(a)	What do you understand by induced fit model for enzyme catalyzed reactions?					
~ ···	(b)	What impact can be observed on protein after heat processing?	04				
	(c)	What do you mean by Food Guide Pyramid? Draw a diagrammatic representation 0 '					
	(-)	depicting food groups and recommended serving sizes. Also highlight or					
		significance of each food group.					
		OR					
Q.4	(a)	Calculate the calorific requirement of a moderately working woman whose weight	03				
· ·		is 55 kg.					
	(b)	Draw a nutrient wheel constituting nutrients recommended consumption sizes.	04				
	(c)	Explain the properties, functions and deficiency symptoms of vitamin C.	07				
Q.5	(a)	Highlight on the effect of processing on carbohydrate.	03				
~ ~	(b)	Differentiate between soluble fiber and insoluble fiber.					
	(c) (c)	Discuss the protein digestion process in human being.					
	(0)	Discuss the protein digestion process in human being. 07					
Q.5	(a)	Highlight on omega-3 and omega-6 fatty acids with respect to human health.	03				
X.C	(b)						
	(c)	Tri carboxylic acid cycle is anergy releasing machanism in hyman boing. Justify					
	(-)	the statement.	07				
		the statement.					
		N.					
		St.					

www.FirstRanker.com