

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- V (New) EXAMINATION – WINTER 2019

Subject Code: 2151401

Date: 02/12/2019

Subject Name: Design & Formulation of Foods

Time: 10:30 AM TO 01:00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		MARKS
Q.1	(a) What do you mean by a weaning food? Explain with suitable example.	03
	(b) Give the application of food guide pyramid in planning a balanced diet.	04
	(c) Write short notes on the following i. Anorexia nervosa ii. Preeclampsia	07
Q.2	(a) Mention the role of oxytocin and prolactin in lactation.	03
	(b) What are different parameters used for fortification of formula milk?	04
	(c) Describe a menu plan for 6-12 years old school children. Also calculate the energy provided by the suggested menu.	07
OR		
Q.3	(c) Give the nutritional significance of legumes and pulses in a daily diet	07
	(a) Differentiate between human and cattle milk.	03
	(b) Enlist various geriatric disorders related to nutrition and explain any one disorder.	04
	(c) Explain how physical and psychological factors affect food choices in adults?	07
OR		
Q.3	(a) State the health benefits of probiotics and prebiotics with examples.	03
	(b) Explain any one nutrition related disorders in pregnant women.	04
	(c) Write in detail about principles of menu planning process.	07
Q.4	(a) Calculate RDA of protein for a person weighing 100 lbs.	03
	(b) What is nutritional significance of dietary fibers towards human health?	04
	(c) What do you mean by food exchange lists? How they are used for planning the diet?	07
OR		
Q.4	(a) What is glycemic index?	03
	(b) Enlist different fermented foods and give nutritional benefits of fermented foods.	04
	(c) Write in detail about different types of diabetes	07
Q.5	(a) What is Sarcopenia?	03
	(b) What is nutritional significance of dietary fibers towards human health?	04
	(c) Write a detailed note on processed products from Rice.	07
OR		
Q.5	(a) State the causes and symptoms of protein energy malnutrition among pre-school children.	03
	(b) Write a short note on antinutritional factors in food.	04
	(c) Elaborate the concept of therapeutic diet with suitable examples.	07
