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GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-V (NEW) EXAMINATION - WINTER 2020

Subject Code:3151401 Date:01/02/2021

Subject Name:Design and Formulation of Foods

Time:10:30 AM TO 12:30 PM Total Marks: 56

Instructions:

- 1. Attempt any FOUR questions out of EIGHT questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a) (b) (c)	What are the types of formula milk based on preparation Write short note on a) Preeclampsia b) pyloric stenosis c) sarcopenia d) hyponatraemia Explain the concept, characteristics of probiotics & prebiotics using examples.	03 04 07
Q.2	(a) (b) (c)	What is glycemic index? Explain how gestational diabetes is dangerous for both mother and foetus Describe the nutritional and antinutritional factors of soyabean	03 04 07
Q.3	(a) (b) (c)	Write the formulation of banana based weaning food containing jaggery Describe the a) pica foods b) protein/ day RDA for elderly person Explain the disorders a) anorexia nervosa and b) bulimia nervosa	03 04 07
Q.4	(a) (b) (c)	What is the refueling window and its significance for athletes? Write the difference between human and cattle milk. Explain the role of hormones involved in lactation Explain the nutrition related disorders in infants	03 04 07
Q.5	(a) (b) (c)	Calculate the weight gain during pregnancy for a female of height 170 cm and weight 176 lbs. Explain the protein energy malnutrition Suggest a therapeutic diet plan for diabetic person. Which are the foods which should be avoided by such patients.	03 04 07
Q.6	(a) (b) (c)	What do you understand by food exchange list? Give three examples Explain colic and enlist remedies for colic. How is diabetes caused? Draw diagram of anatomy of the organ concerned with diabetes. Differentiate between type I and type II diabetes	03 04 07
Q.7	(a) (b) (c)	Comment on a) DHA b) colostrum c) swallowing problem in elderly people Comment on nutrigenomics and designer foods What are the factors affecting food choices?	03 04 07
Q.8	(a) (b) (c)	Describe a formulation for pregnant women and briefly enlist the significance of each component. Explain the significance of fermented foods using examples? Suggest a menu plan for preschool children. Also calculate the energy and tentative cost of the meal.	03 04 07
