Seat No.: _____

Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-V EXAMINATION – WINTER 2015

	•	Code: 2151401 Date:17/12/2015 Name: Design and Formulation of Foods	
Tiı	•	10:30am to 1:00pm Total Marks: 70	
		Attempt all questions. Make suitable assumptions wherever necessary.	
Q.1	(a) (b)	Describe the principles of menu planning process. Give the nutritional significance of legumes and pulses.	07 07
Q.2	(a) (b)	Describe types of diabetes and a therapeutic diet for a diabetic person. Describe significance of following in diet during pregnancy. Also enlist the sources of each i) Calcium ii) Iron iii) Folate iv) Teratogens OR	07 07
	(b)	Explain how a balanced diet can be planned using food pyramid	07
Q.3	(a)	Describe the following types of formula milk. Also describe the parameters for fortification of formula milk. Write full form of DHA and ARA. i) Cow milk ii) Soy based iii) Protein hydrolysate	07
	(b)	Describe any three nutrition related concerns in elderly people OR	07
Q.3	(a) (b)	Describe weaning foods using a recipe example Explain the health benefits of probiotics and prebiotics with examples of each.	07 07
Q.4	(a) (b)	Write in detail about milling of corn. Describe the nutritional value of Wheat and Rice OR	07 07
Q.4	(a) (b)	Describe the significance of food exchange list in menu planning process State various process induced toxins in food and explain any one in detail.	07 07
Q.5	(a)	Write a short note on significance of nutrition for athletes before, during and after rigorous physical exercise.	07
	(b)	Describe the following: i) Gestational diabetes ii) Preeclampsia iii) Role of oxytocin and prolactin in lactation iv) Sarcopenia	07

Q.5	(a)	Describe the following nutrition related disorders and remedies in infants:	07
		i) Colic	
		ii) Pyloric stenosis	
	(b)		07
		products along with the starter organism/s used.	
