

# GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2018

**Subject Code:2151401**

**Date:11/12/2018**

**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
<b>Q.1</b>	(a) What do you mean by a weaning food? Explain with suitable example.	<b>03</b>
	(b) Mention two examples each of following 1.Probiotic      2. Synbiotic      3. Prebiotic      4. Food toxins	<b>04</b>
	(c) Describe the principles of menu planning process.	<b>07</b>
<b>Q.2</b>	(a) What is a food guide pyramid?	<b>03</b>
	(b) Describe the concept of food exchange lists? How they are used for planning the diet?	<b>04</b>
	(c) Write in detail about different types of diabetes	<b>07</b>
	<b>OR</b>	
	(c) Describe the nutritional value of cereals	<b>07</b>
<b>Q.3</b>	(a) State the role of oxytocin and prolactin in lactation.	<b>03</b>
	(b) What is glycemic index? Give classification of food on the basis of glycemic index.	<b>04</b>
	(c) Explain how physical and psychological factors affect food choices in adults?	<b>07</b>
	<b>OR</b>	
<b>Q.3</b>	(a) Write a short note on Anorexia nervosa	<b>03</b>
	(b) Enlist different fermented foods and give nutritional benefits of fermented foods.	<b>04</b>
	(c) Briefly explain the food considerations in order to address the health concerns of elderly people.	<b>07</b>
<b>Q.4</b>	(a) Differentiate between human and cow milk.	<b>03</b>
	(b) Explain any one nutrition related disorders in pregnant women	<b>04</b>
	(c) Describe how nutrition affects on performance of athletic person?	<b>07</b>
	<b>OR</b>	
<b>Q.4</b>	(a) State the causes and symptoms of protein energy malnutrition among pre-school children.	<b>03</b>
	(b) What is nutritional significance of dietary fibers towards human health?	<b>04</b>
	(c) Explain different types of formula milks and describe parameters used for fortification of formula milk.	<b>07</b>
<b>Q.5</b>	(a) Calculate RDA protein for a person weighing 100 lbs.	<b>03</b>
	(b) State the advantages of fermented foods and give it's nutritional significance.	<b>04</b>
	(c) What is importance of folate, iron and calcium as nutrients during pregnancy	<b>07</b>

**OR**

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|------------|--|-----------|
| <b>Q.5</b> | (a) What do you mean by Preeclampsia?              | <b>03</b> |
|            | (b) Write a short note on antinutritional factors. | <b>04</b> |
|            | (c) Comment on 'eating disorders among infants'    | <b>07</b> |

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