

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE - SEMESTER-V • EXAMINATION – SUMMER • 2015**

**Subject Code: 151401****Date: 07/05/2015****Subject Name: Design and Formulation of Foods****Time: 02.30pm-05.00pm****Total Marks: 70****Instructions:**

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

- Q.1** (a) Explain the nutritional value of legumes and pulses **07**  
 (b) Write a detailed note on processed products from wheat **07**
- Q.2** (a) Describe the principles of menu planning process **07**  
 (b) State various natural anti nutritional factors found in plants and describe any two in detail **07**
- OR**
- (b) Describe functional foods with suitable examples? How they are different from nutraceuticals? **07**
- Q.3** (a) Write a detailed note on glycemic index of food and its nutritional significance **07**  
 (b) Give the significance of food exchange list and describe the food exchange list used in India **07**
- OR**
- Q.3** (a) Describe the nutritional value of milk and milk products **07**  
 (b) State and describe various toxins formed during processing of foods **07**
- Q.4** (a) Justify the statement “Physical and psychological factors affect food choices”. **07**  
 (b) What is importance of folate, iron and calcium as nutrients during pregnancy **07**
- OR**
- Q.4** (a) Write short notes on the following **07**
- i. Anorexia nervosa  
 ii. Preeclampsia
- (b) Explain causes, symptoms and prevention of protein energy malnutrition among pre-school children. **07**
- Q.5** (a) Why nutrition during adolescence is crucial? Describe the factors affecting food choices of adolescents. **07**  
 (b) Describe how nutrition can address the health problems of elderly people **07**
- OR**
- Q.5** (a) What is significance of nutrition for athletes before, during and after exercise? **07**  
 (b) Give the nutritional significance of dietary fibers **07**

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