

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V • EXAMINATION – SUMMER • 2014****Subject Code: 151401****Date: 17-06-2014****Subject Name: Design and Formulation of Food****Time: 10.30 am - 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.

- Q.1** (a) Explain the principles of menu planning process **07**
(b) Describe the nutritional value of legumes and pulses **07**
- Q.2** (a) Write in detail about nutritional significance and advantages of fermented food **07**
(b) Enlist specific points to be considered while planning a diet. **07**
- OR**
- (b) State various anti-nutritional factors found in foods with one example of each and write in detail about lathyrism **07**
- Q.3** (a) Give significance of nutrition during adolescence and describe the factors affecting food choices of adolescents. **07**
(b) Explain causes, symptoms and steps for prevention of protein energy malnutrition among pre-school children. **07**
- OR**
- Q.3** (a) Give the nutritional requirements for a diabetic patient along with its symptoms and write brief about various artificial sweeteners. **07**
(b) Describe importance of nutrition for athletes before, during and after exercise **07**
- Q.4** (a) Describe the nutritional value of milk in relation to its major constituents **07**
(b) Write a detailed note on egg white proteins **07**
- OR**
- Q.4** (a) Write a detailed note on processed products of rice. **07**
(b) Describe the food exchange list specified by National Institute of Nutrition. **07**
- Q.5** (a) Enlist various Gastro-intestinal diseases. Explain causes and symptoms of various types of diarrhea and suggest diet for the same. **07**
(b) Describe the preparation and preservation of microbial culture for fermented foods. **07**
- OR**
- Q.5** (a) Define convenience foods. Write advantage of convenience foods and role of processing techniques and packaging trends in preparation of convenience foods. **07**
(b) Justify why Mother's milk is considered as the best food for infant? **07**
