

GUJARAT TECHNOLOGICAL UNIVERSITY**BE – SEMESTER V • EXAMINATION – WINTER – 2012****Subject code: 151401****Date: 16-01-2013****Subject Name: Design and Formulation of Foods****Time: 02:30 pm to 05:00 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)** Define following terms **06**
- | | | |
|------------------|------------------|-------------------|
| 1. Menu Planning | 2. Nutraceutical | 3. Infant formula |
| 4. Colostrum | 5. RDA | 6. Enrichment |
- (b)** Scientifically justify following statements. **08**
- a) Black tea is considered as functional food.
 - b) LDL cholesterol is considered as good cholesterol while HDL as bad cholesterol.
 - c) The proteins from animal sources are superior in quality than proteins from plant sources
 - d) Combination of cereals and pulses is recommended in daily diet
- Q.2 (a)** Explain why mother's milk is considered as the most suitable diet for an infant? **07**
- (b)** Describe the nutritional value of legumes and pulses **07**
- OR**
- (b)** Write in detail about processed products from rice **07**
- Q.3 (a)** Enlist different types of anti nutritional factors found in food and describe any two in detail **07**
- (b)** State and describe various nutritional requirements for an athletic person **07**
- OR**
- Q.3 (a)** Describe the principles of menu planning process. **07**
- (b)** What are the advantages of fermented food and give a note on fermented dairy products **07**
- Q.4 (a)** Write in detail about egg white proteins **07**
- (b)** What do you mean by Omega -3 and Omega-6 fatty acids? Give significance of Omega -3 fatty acids in cardiovascular disease. **07**
- OR**
- Q.4 (a)** Enlist specific points to be considered while planning a diet. **07**
- Q.4 (b)** What are the nutritional requirement of preschool going children **07**
- Q.5 (a)** State and describe various toxins formed during processing of foods **07**
- (b)** Give the nutritional requirements of elderly people and suggest a suitable diet for them with justification. **07**
- OR**
- Q.5 (a)** Write a short note on following 1. Probiotics 2. Dietary fibers **07**
- (b)** What is therapeutic diet? Write in detail about diet for diabetic patient. **07**
