

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V(New) • EXAMINATION – WINTER 2016

Subject Code:2151401

Date:17/11/2016

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.

- Q.1** (a) Give full form of following **05**
(i) PUFA (ii) HDL (iii) EPA (iv) FOS (v) MUFA
- (b) State the dietary sources of following **05**
i) Calcium ii) Iron iii) Folate iv) Teratogens v) Immunoglobulins
- (c) Mention two examples each of following **04**
1. Probiotic 2. Synbiotic 3. Prebiotic 4. Food toxins
- Q.2** (a) What is a food guide pyramid? **03**
- (b) Describe parameters used for fortification of formula milk. **04**
- (c) Give the nutritional significance of cereals in a daily diet **07**
- OR**
- (c) What are different factors affecting food choices of adolescents **07**
- Q.3** (a) Enlist symptoms of protein energy malnutrition among pre-school going children. **03**
- (b) Give significance of nutrition for athletes. **04**
- (c) Write short notes on the following **07**
i. Anorexia nervosa
ii. Preeclampsia
- OR**
- Q.3** (a) State various food exchange lists used in India **03**
- (b) Explain any one nutrition related disorders in pregnant women. **04**
- (c) Write a detailed note on glycemic index of food and its nutritional significance **07**
- Q.4** (a) Give specific points considered during planning a diet. **03**
- (b) What is Diabetes? Describe types of diabetes. **04**
- (c) Write in detail about principles of menu planning process. **07**
- OR**
- Q.4** (a) Enlist various anti-nutritional factors in foods **03**
- (b) What is nutritional significance of dietary fibers towards human health? **04**
- (c) Comment on 'eating disorders among infants' **07**
- Q.5** (a) Enlist different fermented foods and give nutritional benefits of fermented foods. **03**
- (b) Explain how food pyramid can be used in planning a balanced diet? **04**
- (c) What is importance of folate, iron and calcium as nutrients during pregnancy **07**

OR

- Q.5** (a) Describe any one processed product from Wheat **03**
- (b) Give the role of oxytocin and prolactin in lactation. **04**
- (c) Describe how nutrition can address the health problems of elderly people **07**