

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY****M. Ph. - SEMESTER- II • EXAMINATION – SUMMER -2018****Subject Code: MRA204T****Date: 21/05/2018****Subject Name: REGULATORY ASPECTS OF FOOD AND NEUTRACEUTICALS****Time: 10:30AM TO 01:30PM****Total Marks: 80****Instructions:**

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

- Q.1** (a) Define Nutraceutical. Write a note on scope and opportunities in nutraceutical market. **06**  
(b) Explain WHO guideline on 'Daily iron and folic acid supplementation in pregnant women'. **05**  
(c) Explain WHO guideline on 'Daily iron supplementation in infants and children'. **05**
- Q.2** (a) Write a note on European Union directive regulation on Novel food and Novel food ingredients. **06**  
(b) Write a note on FSSAI organization and Functions. **05**  
(c) Write a note on Recommended dietary allowances (RDA) in United State. **05**
- Q.3** (a) Explain US FDA Food Safety Modernization Act in detail, Dietary Supplement Health and Education Act. **06**  
(b) Write a note on U.S. regulations for manufacture and sale of nutraceuticals and dietary supplements. **05**  
(c) Describe the functions of Chief Executive Officer of Food Authority of India **05**
- Q.4** (a) Explain Labelling Requirements and Label Claims for Dietary Supplements as per US Regulation. **06**  
(b) Explain the Regulations for import, manufacture and sale of nutraceutical products in India. **05**  
(c) Give a brief WHO guideline on 'optimal feeding of low birth-weight infants in low- and middle-income countries'. **05**
- Q.5** (a) Write a note on Good manufacturing practice for Nutraceuticals. **06**  
(b) Write a note on NSF Certification and Standards for Food And Dietary Supplements. **05**  
(c) Explain about NSF international and give its role in the Dietary Supplements and Nutraceuticals Industries. **05**
- Q. 6** (a) Give the History of Food and Nutraceutical Regulations. **06**  
(b) Explain Labelling Requirements for Dietary Supplements as per EU Regulation. **05**  
(c) Give the Difference between Recommended dietary allowances (RDA) of India and Europe. **05**
- Q.7** (a) Give a brief WHO guideline on 'Intermittent iron and folic acid supplementation in menstruating women'. **06**  
(b) Give a brief WHO guideline on 'Sugar intake of Adults and Children'. **05**  
(c) Give the difference between functional foods and Medicinal foods. **05**

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