

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) 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
