

No. of Printed Pages : 03

Roll No. ....

**BB-804**

**M. Tech. EXAMINATION, May 2017**

(Second Semester)

(B. Scheme) (Main & Re-appear)

FT-508

FOOD TECHNOLOGY

Nutraceuticals and Functional Foods

*Time : 3 Hours]*

*[Maximum Marks : 75*

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Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

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**Note :** Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

(3-14/16)M-BB-804

**P.T.O.**

### **Unit I**

1. Discuss the role of nutraceuticals as a new dietary ingredient. Also enumerate the various regulatory issues associated with introduction of nutraceuticals in the market. **15**
2. Explain the role of functional foods in management of obesity and inflammation. **15**

### **Unit II**

3. Discuss the health benefits of the following nutraceuticals : **7½×2=15**
  - (a) Phytoestrogens
  - (b) Anthocyanins.
4. Enlist the important parameter which have to be standardized for using nutraceuticals for effective control of disease. **15**

### **Unit III**

5. Elaborate the usefulness of probiotics and prebiotics in gastro intestinal health and other applications. **15**

6. Explain the sources and significance of fructo-oligosaccharides and starch as probiotic food component. **15**

### **Unit IV**

7. Define functional foods. Discuss the development of various functional foods, their storage and processing. **15**
8. What do you understand by Nutrigenomics ? Discuss its relation to nutraceuticals. **15**