

No. of Printed Pages : 03

Roll No.

CC-803

M. Tech. EXAMINATION, May 2017

(Third Semester)

(Re-appear Only)

FOOD TECHNOLOGY

FT-605

Food Biotechnology

Time : 3 Hours]

[Maximum Marks : 75

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.

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

(2-20) M-CC-803

P.T.O.

Unit I

1. Elaborate the basic principles of genetic engineering. How can genetic engineering be used for improvement of food crops. **15**
2. Discuss the production, advantages and disadvantages of transgenic golden rice and Bt. brinjal. **15**

Unit II

3. Comment on the application of protein engineering to produce glucose isomerase and antibiotic nisin. **15**
4. How can biotechnology be used to enhance flavours of various food materials ? Explain with suitable examples. **15**

Unit III

5. How can the natural antimicrobials be used for food preservation ? Discuss the applications of bacterioans as biopreservatives in various food systems. **15**

6. Discuss the production and application of biocolors and organic acids as food ingredients. **15**

Unit IV

7. Discuss the various trade related aspects of biotechnologically manufactured foods. Also elaborate the intellectual property rights issues related with it. **15**
8. What is the effect of biotech. foods on the food business of developing and developed countries ? **15**