TM153455A	Reg. No:
	Name:

# M. Sc. DEGREE (C.S.S.) EXAMINATION, OCTOBER 2016 SEMESTER III - HOME SCIENCE (FOOD SCIENCE AND NUTRITION) FN3C13TM - FOOD MICROBIOLOGY AND QUALITY CONTROL

Time: Three Hours Maximum Marks: 75

#### PART A

- I. Answer any five questions, not exceeding one page. Each question carries 3 marks
- 1. Write a note on the normal flora of skin
- 2. Write a short note on water activity
- 3. What is MPN in enumeration of microorganisms?
- 4. Write about bread diseases
- 5. What is Lathyrism?
- 6. Explain about the functions of FSSAI
- 7. Write about aflatoxins

(5x3=15)

#### **PART B**

### II. Answer any six questions. Each question carries 5 marks

- 8. Write a note on the economic importance of yeast
- 9. Classify microorganisms based on their need of oxygen for growth
- 10. Bring out the impact of food contamination on health of individuals
- 11. Elaborate on the microbes that cause the spoilage of fruits and vegetables
- 12. Explain about the causes and symptoms of E.coli gastroenteritis
- 13. Give the need and principles of HACCP
- 14. Explain how the quality of food is maintained in India
- 15. Write on the hazards caused by dioxns and contaminants from plastics
- 16. Write a note on environmental contaminants

(5x6=30)

## **PART C**

### III. Answer two questions not exceeding three pages. Each question carries 15 marks

- 17. Discuss on two intrinsic and two extrinsic factors that affect the growth of microorganisms
- 18. Explain in detail about rapid detection methods of microorganisms
- 19. Elaborate on the spoilage of meat and meat products
- 20. Explain in detail about salmonellosis and botulism

(2x15=30)