

**FNS 405** 

## First Semester M.Sc. Degree (CBCS) Examination, December 2018 FOOD SCIENCE AND NUTRITION Food Microbiology

Time: 3 Hours Max. Marks: 70

- Write short notes on any five of the following (not exceeding 2 pages each):
   (5×3=15)
  - a) Cell wall Peptidoglycan.
  - b) Rancidity.
  - c) Poultry.
  - d) Algal toxins.
  - e) Perishable food and shelf life.
  - f) Fungal spoilage.
  - g) Putrification.
  - h) Prebiotics.
- 2. Write explanatory notes on **any five** of the following (**not** exceeding **3** pages) :

 $(5 \times 5 = 25)$ 

- a) Microorganism in baking.
- b) Contamination of fruits and vegetables.
- c) Gram negative bacterial pathogens.
- d) Probiotics and health benefits.
- e) Fermented alcoholic beverages.
- f) Milk handling and processing.
- g) Microbial toxins in food spoilage.
- h) Sporulating and non sporulating microbes.

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3. Answer any three of the following (not exceeding 5 pages each): (3×10=30)

- a) Give an account on food borne pathogens and their infections.
- b) Describe the physical and chemical factors influencing microbial growth.
- c) Illustrate the microbial role in food fermentation and their importance.
- d) Discuss on various types of traditional fermented foods in India.
- e) Explain microbial mediated biochemical changes during food spoilage.