No. of Printed Pages: 4

MFN-003

MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT)

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Term-End Examination, 2019

MFN-003: FOOD MICROBIOLOGY AND SAFETY

Time: 2½ Hours Maximum Marks: 75

Note: Question **No.1** is compulsory. Answer **five** question in **all**. All questions carry equal marks.

- (a) Explain the following in 2-3 sentences each with examples: [2×5=10]
 - (i) Aerobic spore former
 - (ii) Gram negative rod
 - (iii) Edible Fungus
 - (iv) Baker's Yeast
 - (v) Aflatoxin Producer
 - (b) Define Food Safety and state its significance as a subject. [5]

| 2. | Define | [2½×6=15] | |
|----|-------------|--|----------------------|
| | (i) | Hazard | |
| | (ii) | Water activity | |
| | (iii) | Critical Control Point | |
| | (iv) | Mycotoxin | ` |
| | (v) | Coliform | |
| | (vi) | Putrefaction | |
| | (vii) | Sporulation | |
| 3. | State terms | the differences between the follow | ing sets of [5×3=15] |
| | (i) | Food Intoxication Vs. Food Infection | |
| | (ii) | Gram positive cell wall Vs. Gram r | negative cell |
| | (iii) | Bacteria Vs. Fungi | |
| 4. | (a) | Classify the microorganisms on the l growth, temperature and oxygen red | |

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Explain briefly the stages of bacterial growth. [5] (b) Explain the significance of Food Safety 5. (a) Management System in Food industry. [10] List the factors which influence the emergence (b) of new food borne pathogens. [5] What are the various types of hazards associated with 6. food? Explain giving examples. [15] Write short notes on any three of the following: [15] 7. Risk Analysis (i) Spoilage in canned foods (ii) (iii) Temperature Danger Zone **GHPs** (iv) (v) **HACCP**