M.Sc. (Home Science) Food Science and Nutrition (Semester-II) Examination FOOD MICROBIOLOGY

| | Paper—122FM50 | | | | |
|----------|--|----------|--|--|--|
| Time : T | [Wo Hours] [Maximum Mar | ks : 45 | | | |
| | Note: - ALL questions are compulsory and carry equal marks. | | | | |
| 1. Do | as directed : | | | | |
| (1.1 |) Choose the appropriate word from the following and fill in the blanks: | | | | |
| | (Fungi, Bacteria, Anaerobes, Yeast, Algae) | | | | |
| | (1.1.1) Green can manufacture their own food by photosynthesis. | | | | |
| | (1.1.2) Microorganisms which obtain their energy without oxygen are called as | ; | | | |
| | | I | | | |
| | (1.1.3) can grow in highest concentrations of sugar. | 1 | | | |
| | (1.1.4) includes both yeast and moulds. | 1 | | | |
| +1.2 |) Name four factors necessary for multiplication of microorganisms. | 3 | | | |
| (1,3 | Name four beneficial effects of micro organisms in foods. | _ | | | |
| (1.4 | Define food micro-organisms. | 1 | | | |
| 2. Atte | Attempt any one: | | | | |
| (2.1 |) What is spoilage of food ? Write in detail about the causes of food spoilage | ge. 9 | | | |
| (2.2 | Discuss in detail about factors affecting food spoilage and changes in foods | caused | | | |
| | by microbes. | ė, | | | |
| 3. Ans | Answer the following: | | | | |
| (3.1 | Contamination of food by handler | | | | |
| (3.2 | Contamination of food through air | 3 | | | |
| (3.3 | Cross contamination | - | | | |
| (3.4 |) Vector transmission | 7 | | | |
| (3.5) | Vehicle transmission. | 1 | | | |
| VOX= 386 | · · · · · · · · · · · · · · · · · · · | - Conta, | | | |

www.sgbauonline.com

| 4. | Solve the following: | | | | | | | |
|----|----------------------|--|----------------------|-----------|--|----|--|--|
| | (4.1) | AL) State true or false : | | | | | | |
| | | (4.1.1 | The neurotoxin produ | iced by c | ostridium botulinum is very mild toxin | 1 | | |
| | | (4.1.2. Food borne illness may be caused by poor sanitary practices. | | | | | | |
| | | (4.7.3) Bacterial contamination is the most common cause of food potsoning in the catering industry. | | | | | | |
| | | t helpful in preventing food borne illne | :S3@S. | | | | | |
| | | | | | | 7. | | |
| | (4.2) | 2) Match the Column A with Column B: | | | | | | |
| | | | (| | (B) | | | |
| | | 'i: | Viral hepatitis | (a) | Bacteria | 1 | | |
| | | Ξ. | Salmonella typit. | (b) | Parasite | | | |
| | | (iii | Tapeworm | (c) | Infective aundice | | | |
| | | | | (d) | Tuberculasis | | | |
| | 4.35 | List four common symptoms of food borne illnesses. | | | | | | |
| 5. | Attempt any one | | | | | | | |
| | (5.1) | What is Hazard Analysis and Critical Control Point (HACCP)? Write in detail abothe principles involved in HACCP. | | | | | | |
| | (5.2) | What is Good Hygiene Practice (GHP)? Discuss in detail about the importance of | | | | | | |

sanitation and hygiene in frods.