## PG (NEW) CBCS M.Sc. Semester-II Examination, 2020 FOOD SCIENCE & NUTRITION PAPER: FSN 202

## Time: 1 Hour

## Answer any two from the following questions: 10X2=201. (a) Briefly describe the bacterial growth curve with diagram. (b) Bacterial population increases from $10^3$ cells to $10^9$ cells in 10 hours. What is the mean growth rate constant (k) and mean doubling time (g)? 5 + 52. Name different types of fungal asexual spores with example. State the life cycle of Ascomycetes. 4+63. What is Most Probable Number? How do you perform the MPN test in the laboratory? State the effect of salt on microorganisms. 1+6+34. Write down the different causes of food spoilage.Briefly describe the intrinsic and extrinsic factors for microbial growth in food material. 3+(3.5+3.5)5. State the factors affecting the rate of drying. Briefly describe any one drying 4+6process. 6. Define Radappertization and Radicidation. What are the adverse effects of irradiation on food quality? 4+67. Differentiate between sterilization and pasteurization. Write down the different methods of pasteurization. State the two general principle employed in food preservation. 2+4+4

Write down the different principle of high pressure technology. How does it affect the microbial cell? State its advantages. 3+3+4

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