

KANYASHREE UNIVERSITY

M.Sc. 2nd Semester Examination-2022

Subject: Food & Nutrition

Course-CC 7

Food Microbiology and Food Toxicology

Full Marks-40

Time-2.00 Hours

Group-A

[Answer **any four** of the followings]

(5x4=20)

1. Write a short note on probiotic cheese. [5]
2. What is water activity (a_w)? Mention the factors affecting water activity. [1+4]
3. Discuss the different stages of bacterial growth curve. [5]
4. Discuss the structure of an ideal yeast cell. Mention any four industrial applications of yeast. [3+2]
5. What is fecal and non-fecal coliform bacteria? How to identify coliform bacteria from water? [2+3]
6. Describe the structure of molds. Give a brief idea about the reproduction of molds. [2+3]
7. What are different types of diarrhoea? What are its causes? [2+3]

Group-B

[Answer **any two** of the followings]

(10x2=20)

1. Why food microbiology is important? Describe in brief the factors involved in the microbial activity of food. [3+7]
 2. What is the difference between sterilization, disinfection and pasteurization? Give a brief idea about the various methods of sterilization. [3+7]
 3. Define GMP and HACCP. Write in short about the principles of HACCP. [4+6]
 4. Differentiate between food borne infections and food borne intoxications. What is food spoilage? Describe about the microorganisms involved and the spoilage of foods like vegetables and fruits, meat and meat products. [3+1+6]
-