

THE TAMIL NADU Dr. M.G.R MEDICAL UNIVERSITY

[AHS 1023]

OCTOBER 2023

Sub. Code: 1303

**M.Sc. CLINICAL NUTRITION
FIRST YEAR (From 2020-2021 onwards)
PAPER IV - MEDICAL & FOOD MICROBIOLOGY**

Q.P. Code: 281303

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

I. Elaborate on:

(2x20=40)

1. Write in detail about the various factors affecting the growth of micro-organism.
2. Write in detail:
 - A. Food borne infections.
 - B. Food borne intoxication.

II. Write notes on:

(10x6=60)

1. Write the uses of microbes in food industry.
2. Explain pasteurization.
3. Name the food borne diseases due to naturally occurring toxicants. Explain Lathyrism.
4. Write about the chemical methods of food preservation.
5. Explain Botulism.
6. Benefits of HACCP.
7. Write about the Consumer Protection Act, (CPA) 1986.
8. Describe the brucella ring test for microbial analysis of milk.
9. Write about the concepts of food microbiology.
10. Write a note on *Vibrio parahaemolyticus* gastroenteritis.
