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

[AHS 1022]

OCTOBER 2022

Sub. Code: 1303

Maximum : 100 Marks

M.Sc. CLINICAL NUTRITION First Year (Candidates admitted from 2012-2013 onwards – Paper – III) (Candidates admitted from 2020-2021 onwards – Paper – IV) PAPER III & IV - MEDICAL & FOOD MICROBIOLOGY

Q.P. Code: 281303

Time : Three Hours

Answer ALL questions

I. Elaborate on:

- 1. Give a detailed account on Food borne infections.
- 2. Explain in detail about the risk analysis and risk management.

II. Write notes on:

- 1. Discuss about the Spoilage effects of Poultry and poultry products.
- 2. How to use chemicals to control and destruct microorganisms in foods? Explain.
- 3. Explain any two factors affecting growth of microorganisms in foods.
- 4. Describe the role of microorganisms in fermented foods.
- 5. Etiology, disease conditions, clinical features and prevention of Botulism.
- 6. Antinutritional factors in foods.
- 7. Explain the detection methods of adulteration for any 6 food products.
- 8. Roles and responsibilities of risk communication.
- 9. Construct a HACCP flow diagram for a liquid milk.
- 10. Explain the roles of the following organization in the area of standardization of foods.

a) Codex Alimentarius b) Codex India?

(10x6=60)

(2x20=40)