

[LL 1017]

OCTOBER 2017

Sub. Code: 1303

**M.Sc. CLINICAL NUTRITION EXAMS
FIRST YEAR
PAPER III – MEDICAL AND FOOD MICROBIOLOGY**

Q.P. Code : 281303

Time : Three hours

Maximum : 100 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Factors affecting growth of microorganisms in foods.
2. Food borne diseases due to naturally occurring toxicants. Justify.

II. Write notes on: **(10 x 6 = 60)**

1. Gene modification and its influence on foods.
2. Mycotoxins and their effects on human health.
3. Chemical methods of destruction of microorganisms.
4. Salmonellosis – Explain the disease, foods involved, conditions necessary for outbreak and its Control.
5. What are the effects of spoilage caused in fruits and vegetables by fungi?
6. Bacterial pathogens causing gastroenteritis in human. Explain.
7. Tabulate few adulterants in foods, method of detection and the ill effects caused in human.
8. Define risk communication. What are the roles and responsibilities of risk communication?
9. Explain why HACCP as a better and effective method over traditional food safety assurance program?
10. Explain the roles of:
 - i) Bureau of Indian standards Act (BIS)1986.
 - ii) Consumer protection Act (CPA) 1986.
