

2054  
B. Voc. (Food Processing and Preservation)  
Fourth Semester  
FPP-404: Food Pathogens

Time allowed: 3 Hours

Max. Marks: 40

**NOTE:** Attempt five questions in all, including Question No. 1 which is compulsory and selecting one question from each Unit.

- x-x-x
- I. Attempt the following:-
- Give significance and incidence of food borne illness
  - Mention about the pathogenesis of *Staphylococcus aureus* and *Salmonella* sp.
  - Write a short note on Rota virus
  - Define mycotoxins. What kind of illness they can cause? (4x2)

UNIT - I

- II. What are the various risk factors associated in food borne illness? Explain. (8)
- III. Write a note on the epidemiology of diarrhoeal disease. (8)

UNIT - II

- IV. Discuss the clinical symptoms for *Clostridium botulinum*, *Listeria monocytogenes* and *Shigella* sp. (8)
- V. Write short note on isolation and detection methods of
- Bacillus* sp.
  - Escherichia coli* (4,4)

UNIT - III

- VI. Explain the different characteristics and clinical symptoms of Hepatitis A and Hepatitis C. (8)
- VII. How food borne illness caused by *Entamoeba histolytica* can be prevented? (8)

UNIT - IV

- VIII. Describe the different control measures for food borne disease outbreaks at industrial and food service establishments (8)
- IX. Discuss in detail about the control of mycotoxins in food items. (8)

x-x-x