Exam.Code:1322 Sub. Code: 9265

#### 2072

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

Max. Marks: 40 Time allowed: 3 Hours

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

x-x-x

- Attempt the following:-I.
  - a) What are common sites of food borne illness?
  - b) Define briefly the pathogenesis and clinical symptoms of Staphylococcus aureus and Bacillus sp.
  - c) Define mycotoxins. Give methods to control mycotoxins in food
  - d) Give control measures for food borne illness in food service outlets (4x2)

#### UNIT - I

- Discuss in detail significance and incidence of foodborne illness. II.
  - (8)

- a) What are common sources of food contamination? III.
  - b) Discuss various risk factors associated in food borne illness.

(3,5)

## UNIT - II

- Discuss isolation and detection methods for Clostridium perfringens and Shigella sp. IV. (8)
- Discuss the various characteristics and pathogenesis of Salmonella sp. And Listeria V. (8) monocytogenes?

## UNIT - III

- Give clinical symptoms of Hepatitis A and Hepatitis C virus. Describe the detection VI. (8) methods for polio virus.
- How food borne illness caused by Entamoeba histolytica can be prevented? Explain VII. (8)

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(2)

# **UNIT-IV**

VIII. Describe the methods to control foodborne diseases outbreaks in industrial establishments. (8)

IX. Discuss in detail toxins of enteric bacteria? What are the hazards associated with it?

x-x-x