

Diploma Course (MICROBIAL ANALYSIS AND FOOD SAFETY)
(Semester II)
MFS-204: Food Adulteration and Safety

Max. Marks: 40

Time allowed: 3 hrs.

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

Q1. Each question carry equal marks (1)

- a) Write one example of intentional and incidental adulterants?
- b) Define Processing Contaminants?
- c) What are Natural and pollutant toxicants?
- d) Define GMO. Give 3 Examples of GMO foods?
- e) Write at least 2 examples of carcinogens formed during Food Processing?
- f) Write major differences between Humoral and Cell mediated Immunity?
- g) What is Anaphylaxis?

UNIT-1

Q2. I) a) Define adulteration and explain in detail various types of adulterants (4)

- b) What is the procedure for the Detection of starch in milk and milk products? (4)

II) Write a procedure for the detection of adulteration of the following:

- a) Food Grains and its Products.(4)
- b) Fruits and Vegetables (4)

UNIT-II

Q3. I) How Acrylamide is formed during food processing? Explain the method for the detection of Acrylamide in the food products? (4, 4)

- II) Write a short note on the formation and quantification of PAHs, Oxyhalides and haloacetic acid? (8)

UNIT-III

Q4. I) a) What are the Potential toxicants formed during the food processing? (4)

b) Explain the various types/Classes of Food Contaminants which Pose A Carcinogenic Threat To Humans? (4)

II) How Genetically engineered foods are formed and what are the various safety concerns which should be considered before commercialising them? Discuss Potential toxicity of GM foods. (8)

UNIT-IV

Q5. I) Write a short note on:

a) Type I and Type II Hypersensitivity? (4)

b) Type III and Type IV Hypersensitivity? (4)

II) What are Metabolic food disorders? Explain the Food Disorder caused due to Lactose Intolerance and Favism? (8)

