QP CODE: 24900110

Reg No:.....

Name:.....

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

FIRST SEMESTER MGU-UGP (HONOURS) REGULAR EXAMINATION NOVEMBER 2024

First Semester

Multi-Disciplinary Course - MG1MDCFTQ100 - FOOD SPOILAGE

(2024 ADMISSION ONWARDS)

Duration: 2 Hours Maximum Marks: 35

Remember (K), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C), Interest (I), Appreciation (Ap), and Skill (S)

Students should attempt atleast one question from each course outcome to enhance their overall outcome attainability.

[Learning Domain][CO No(s)]

Part A
Short Answer Type Questions
Answer any 5 questions
Each questions carries 1 mark

1	Define water activity	[U]	[1]
2	How do yeasts cause spoilage in food products?	[U]	[2]
3	What are the main types of spoilage?	[U]	[3]
4	Give examples of pests, insects, and rodents contributing to spoilage.	[U]	[4]
5	What are the visible signs of ‘thamnidium taint’?	[U]	[5]
6	Why is light exposure a concern for food storage?	[U]	[1]
7	Define O-R Potential of food	[U]	[3]

(5 × 1 = 5)

Part B

Short Essay Type Questions

Answer any 4 questions

Each question carries 5 marks

8	Discuss the role of pH in food spoilage. How does it affect microbial growth, enzymatic activity, and overall food safety?	[U]	[1]
9	What are mycotoxins, and how are they related to mold spoilage?	[U]	[2]
10	List the sources of contamination of meat.	[U]	[3]
11	How does enzymatic spoilage differ from microbial spoilage?	[An]	[4]
12	Discuss about shellfish spoilage.	[E]	[5]
13	What is water activity (aw), and how is it measured?	[U]	[2]
14	Describe microbial spoilage and its primary causes.	[An]	[4]

(4 × 5 = 20)

Part C

Long Essay Type Questions

Answer any 1 question

Each question carries 10 marks

15	Discuss about the role of nutrients, water activity and inhibitory substances in microbial growth	[An]	[1]
16	Describe what extrinsic factors are in the context of food spoilage. Discuss how these factors differ from intrinsic factors.	[An]	[2]
17	Describe the spoilage in meat and meat products	[E]	[3]

(1 × 10 = 10)

END OF THE QUESTION PAPER

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