

KERALA AGRICULTURAL UNIVERSITY B.Tech.(Food Technology) 2022 Admission III Semester Final Examination – February 2024

Pafe.2109

Food Additives and Preservatives (1+1)

Marks: 50 Time: 2 hours

I		Fill in the blanks (10x1=10)
	1.	The acid present in tamarind is
	2.	The red color of beet is due to the presence of pigment.
	3.	help in maintaining/ controlling the acidic / alkaline changes during food processing
		and hence maintain flavor and stability.
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- 4% commercially available acetic acid is calledAccording to FSSAI, nicin comes under class preservative.
 - **State True or False**
- 6. Rhodamine is not permitted to use as food coloring agent.
- 7. Sulphur dioxide cannot be used to preserve naturally colored juices due to its bleaching action.
- 8. Stabilizers and Emulsifiers are certain examples of food additives.
- 9. Direct food additives become a part of the food during packaging. These are in trace amounts.
- 10. 'Sequestrants are added in food to keep the food oxidized.

II Write short notes on ANY FIVE of the following

(5x2=10)

- 1. Distinguish between intentional and unintentional food additives with examples.
- 2. List any four natural pigments.
- 3. Mention the role of food preservatives with two examples.
- 4. Define anti-caking agents with example.
- 5. What is meant by chelating agents?
- 6. Define umami flavor with an example.
- 7. Expand and define GRAS.

III Answer ANY FIVE of the following

(5x4=20)

- 1. Classify food additives based on sources.
- 2. List out the importance of food colorants.
- 3. Write a note on food thickeners.
- 4. Why are flour bleaching agents used? Give two examples.
- 5. Write a short note on fat substitutes.
- 6. Mention the functions of acidity regulators.
- 7. Describe about emulsifiers used in food processing.

IV Write an essay on ANY ONE of the following

(1x10=10)

- 1. Explain the role of antioxidants, calorie and low calorie sweetening agents in food processing along with suitable examples.
- 2. Describe about synthetic food colors with suitable examples and also elaborate its adverse effect on health.
