

Total number of printed pages-4

53 (FPT 703) FALG

2019

FOOD ADDITIVES AND LEGISLATION

Paper : FPT 703

Full Marks : 100

Time : Three hours

The figures in the margin indicate full marks for the questions.

Answer **any five** out of **seven** questions.

1. (a) Explain in details about the working mechanism of Buffer system in foods. 7
- (b) Write *two* applications each for acids and bases in foods. 2+2=4
- (c) What are Polyols? How does it differ from sugars? Mention *three* of their functions. Give *two* examples of polyols. 1+1+2+1=5

Contd.

(d) Explain how Chelating/Sequestering agents work. Give one example. 3+1=4

2. (a) Write a detailed note on low calorie and non-nutritive sweeteners. 13

(b) What are Masticatory substances? How are they formed? What are their sources? 1+2+1=4

(c) Write a short note on Trace elements in foods. 3

3. (a) How does an antioxidant work? Give an example of an antioxidant of how it works in foods. Give three names of antioxidants with their correct codes. 3+1+1=5

(b) Define an emulsifying agent and a stabilizing agent. Give examples. 2+2+1=5

(c) What is the function of anti-caking agents? Give examples. 2+1=3

(d) What are Hydrocolloids? What is their function as an additive in foods? 3+1=4

(e) How do Firming agents work? Give example of its application. 2+1=3

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4. (a) Write a note on Flour Bleaching Agents and Bread Improvers. 8

(b) Differentiate between Class-I and Class-II preservatives with examples. 5

(c) Define a colour additive. Give examples. Write two points of advantages of using synthetic colouring agents over natural ones. 1+2+2=5

(d) Name any two flavouring substances each with the name of the fruit flavour they simulate. 2

Write notes on : (any four) 5×4=20

(a) Clarifying agents

(b) Gases

(c) Propellants

(d) Glazing agents

(e) Unintentional additives

(f) Nutrient supplements

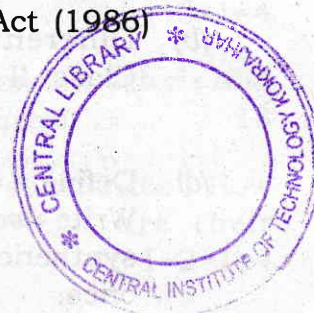
(g) Fat replacers.

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Contd.

6. Write notes on : **(any four)** 5×4=20

- (a) Consumer Protection Act (1986)
- (b) FPO (1955)
- (c) MMPO (1992)
- (d) Agmark
- (e) ISO
- (f) Export Quality Control and Inspection Act (1963)
- (g) WTO.



7. Write notes on : **(any four)** 5×4=20

- (a) PFA (1954)
- (b) SWMA
- (c) VCO (1978)
- (d) BIS
- (e) Codex
- (f) Environment Protection Act (1986)
- (g) GATT.