

Total number of printed pages-4

53 (FPT 703) FALG

2021

FOOD ADDITIVES & LEGISLATION

Paper : FPT 703

Full Marks : 100

Time : Three hours

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

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

1. (a) Explain the working mechanism of Buffer system in foods with examples in details. 10
- (b) What are Polyols? Mention *three* functions played by Polyols. Give *two* examples of Polyols. 2+3+1=6
- (c) How do Firming agents work? Give an example. 2+2=4

Contd.

2. (a) Explain how Chelating/Sequestering agents work. Give *one* example with explanation. 5
- (b) What are Masticatory substances/agents and how are they formed? What are their sources? 4
- (c) Write a note on the Low Calorie and Non-nutritive Sweeteners. 11
3. (a) What are Antioxidants and what is their mechanism of working? Give two examples of Antioxidants used in foods, mentioning where they are used. 4+3=7
- (b) Define an emulsifying agent and a stabilizing agent. Give *one* example of each. 2+2+1=5
- (c) Describe the working mechanism of an Emulsifier with diagram. 8
4. (a) What are Anti-caking agents and why are they used? Give *two* examples of anti-caking agents used in foods. 3+2=5
- (b) Write a note on Flour Bleaching agents and Dough Improvers. 6

(c) Write a note on the application/use of *any three* Anti-microbial agents used in foods. $3 \times 3 = 9$

5. Write notes on : **(any four)** $5 \times 4 = 20$

- (a) Clarifying agents
- (b) Glazing agents
- (c) Gases and Propellants
- (d) Coloring agents and Flavoring agents
- (e) Fat replacers/Substitutes
- (f) Nutrient supplements
- (g) Unintentional additives.

6. Write notes on : **(any four)** $5 \times 4 = 20$

- (a) Consumer Protection Act (1986)
- (b) FSSAI
- (c) Meat Food Products Order, 1973
- (d) Environment (Protection) Act, 1986
- (e) ISO



(f) WTO

(g) PFA (1954)

(h) AGMARK

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

(a) CODEX

(b) SWMA

(c) FPO (1955)

(d) Export (Quality Control and Inspection)
Act, 1963

(e) (MMPO), 1992

(f) BIS

(g) GATT.

