

Total number of printed pages—4

53 (FPT 703) FAAL

2017

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. 5
- (b) How do chelating / sequestering agents work ? 3
- (c) Give examples of Thickeners / Thickening agents. 2
- (d) Write a note on colorants as food additives.. 5
- (e) Describe Unintentional additives. 5

Contd.

2. (a) How do antioxidants work ? 3
- (b) Explain the Bancroft theory of Emulsification in foods. 6
- (c) How do stabilizing agents differ from emulsifying agents ? 2
- (d) How do firming agents work ? Give examples of its application. 3
- (e) Write a note on Fat Replacers. 6
3. (a) Give some examples of anti-caking agents. 3
- (b) Describe Flavoring agents in food additives. 5
- (c) Write a note on Flour Bleaching agents and Bread Improvers. 10
- (d) What are the sources of Masticatory substances ? 2
4. (a) Explain the various categories of non-nutritive low-calorie sweeteners. 10
- (b) What are antibiotics ? 2

- (c) Explain the anti-microbial action of nitrite salts, acetic acid, propionic acid and benzoic acid. $4 \times 2 = 8$
5. Write notes on : **(any four)** $4 \times 5 = 20$
- (a) Polyols
 - (b) Clarifying agents
 - (c) Gases
 - (d) Propellants
 - (e) Glazing agents
 - (f) Nutrient supplements.
6. Write notes on : **(any four)** $4 \times 5 = 20$
- (i) FPO (1955)
 - (ii) MMPO (1977)
 - (iii) PFA (1954)
 - (iv) SWMA
 - (v) Agmark
 - (vi) Cadex Alimentarius
 - (vii) WTO

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

- (i) Export Quality Control and Inspection Act (1963).
 - (ii) BIS
 - (iii) GATT
 - (iv) Consumer Protection Act (1986)
 - (v) VCO (1978)
 - (vi) ISO
 - (vii) Environment Protection Act (1986)
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