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53 (FPT 602) FAQC

2019

## FOOD ANALYSIS, QUALITY CONTROL AND MANAGEMENT

Paper: FPT 602

Full Marks: 100

Time: Three hours

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

Answer any five questions.

- 1. (i) Define the following / Answer the following: 1×10
  - (a) What is food quality?
  - (SOPs) Standard operating Procedures
    - (c) Good Manufacturing Practise (GMP)

Conta

- (d) Total Quality Management (TQM)
- (e) Hazard Analysis Critical control Point (HACCP)
- B Why is food safety important?
- 9 What type of residues in food can be identified by umamic test?
- B processing? hazard and risk in food What is the difference between
- $\mathcal{Z}$ State the objectives of Quality
- (ii) What are the basic characteristics needed for food quality coninfrastructures? Explair
- 2 (i) sensory analysis? Discuss triangle and many evaluating tests are there in Why sensory analysis is done? How two-sample difference tests. 2+2+8

- (ii) necessary in order to maintain the quality of food? Explain how the to start an HACCP plan. potential hazards are identified in order Why analysis of critical control point is
- ယ for conducting a sensory study? 10 What are the basic principles required
- help as a sensory attribute. Explain how appearance of food product

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- (iii) What are the necessary requirements for sensory test room design? for sensory test room design?
- (1) Why texture analysis is important for food processing? Explain how texture of a food sample can be measured.
- (ii) Explain any three quality control tools.
- LEGA JEGAMOFOCK (iii) Define Quality Management System.
- Ċ (i)done? Explain. What is food sampling? How samplings of liquid and granular particles are
- (ii) Explain DMAIC process. What is the sigma management? significance of DMAIC process in six

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- 6. (i) Define adulteration and state its different types. Explain the differences between adulterants and additives. 5

  (ii) Define six sigma. What is the approach of six sigma? Discuss in details the organization structure of six sigma.

  2+3+5

  (iii) What is 8PC? What is p-chart? How standard deviation can be calculated?

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- 7. (i) What are the challenges for food control authority to control food borne hazards?
  - (ii) List out *five* National and International guidelines or regulations for food safety with its role.
    - (iii) Write short notes on: 5

      (a) ISO 22000 and (b) BIS
  - (iv) Give an overview of typical quality risk management process in food industry with a schematic diagram. Explain the risk management tools used in food industry.