53 (FPT 602) FAQC

2017

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. (a) Define quality control. What is the aim of quality control? State the difference between quality control and quality assurance.

 1+1+3
 - (b) Define quality management system. Why food quality is important? Explain. 1+3
 - (c) What are the three basic characteristics of food quality control infrastructure?

- (d) What are the different sensory tests employed for food evaluation? Explain Duo-Trio test and Triangle test. 5
- 2. (a) Explain texture profile analysis test of a food sample.
 - (b) What is HACCP? Explain the principles of HACCP.
 - (c) What is the use of decision tree in quality control? Explain the use with a flowchart.
- 3. (a) What are the reasons for food adulteration? How food adulterants are different from food additives? 3+3
 - (b) Explain the "Plan-Do-Study-Act" cycle.

- (c) Write the name of the adulterant and test for detections of adulterants of the following foods: 2×5
 - (i) Sugar
 - (ii) Turmeric
- (iii) Honey with all the said
 - (iv) Milk
 - (v) Ghee.

4.	(a)	Explain the difference between
		ISO 9000 and ISO 22000. 6
	(b)	How control charts can be constructed?
	(c)	What is PDSA cycle? Explain it and state the importance of PDSA in TQM.
5.	(a)	What are the <i>five</i> elements of six sigma framework? What are the different improvement strategies for the framework?
	(b)	What are the seven features of TQM which are combined to create the TQM philosophy?
6.	Wri	te short notes on: 5×4
	(i)	PFA
	(ii)	Codex Alimentarius Commission
	(iii)	MMPO
	(iv)	ISO 14000
	(v)	BIS.

- 7. (a) What are the different quality control tools? Explain any four.
- (b) What is p-chart? Explain its significance.
- (c) Differentiate between DMAIC and DMADV process.