53 (FPT 602) FAQC

2016

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.

fu	ill n	narks for the questions.
	Ans	wer any five questions.
1. <i>(a)</i>	(i)	Define Quality management system and standard deviation.
	(ii)	Which sensory test is used for selection of panel members in sensory evaluation?
	(iii)	The sigma six approach as a data driven focuses on , and 1
	(iv)	What is the aim of quality control?
	(v)	Define quality assurance and TQM.

a flowchart.
(a) What are the different sensory tests employed for food evaluation? Explain Duo-trio test and triangle test.
(b) Explain the functioning and working principle of autoclave used in sterilization.
(c) Write short notes on FPO and BIS.
(a) How texture profile analysis can be done for texture analysis of defining different parameters?
(b) What are the <i>three</i> major variables for measurement in a sensory test? Explain each.
(c) What are the differences between voluntary and obligatory quality and safety systems?

(b) Write the common quality measures

(c) What is HACCP? Explain the principles

(d) What is the use of decision tree in

5

required for a process food.

of HACCP.

2.

3.

53 (FPT 602) FAQC/G

4. ((a)	Write the name of the adulterant and test for detection of adulterants of the following foods $2\times5=10$
		(i) Sugar
		(ii) Salt
		(iii) Honey
		(iv) Turmeric
		(v) Ghee
(1	(b)	What are the ISO 9000 and ISO 14000? What are the differences between ISO 9000 and ISO 14000? 6+4=10
5. (a)	Explain the "Plan-Do-Study-Act" cycle. 5
(b)	What are the different quality control tools? Explain any two.
(0	c)	Write <i>any two</i> general principles of food safety.
(0	d)	Differentiate between DMAIC and DMADV. 4
6. (6		Define six-sigma. Write the approach of six-sigma. Discuss in details the organisation structure of six sigma.

2+3+5=10

- (b) What are the seven features of TQM which are combined to create the TQM philosophy?
- 7. (a) Write short notes on: $4\times5=20$
 - (i) PFA
 - (ii) FPO
 - (iii) Codex Alimentarius Commission
 - (iv) AGMARK
 - (v) FSSAI.