53 (FPT 701) FHPS

2017

FOOD HYGIENE AND PLANT SANITATION

Paper: FPT 701

Full Marks: 100

Time: Three hours

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

Answer any five questions.

a)	(i)	Define food hygiene.
	(ii)	What is the mode of reproduction in bacteria?
	(iii)	Performance objective is defined as
	(iυ)	Clostridium botulinum grow below pH 4.5 (True/False).
		(ii)

(v)

Give an example for microbes

causing foodborne intoxication.

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- (b) Define personal hygiene and explain the role of personal hygiene in food processing site.
 - (c) What are the different hygiene practise?
- (d) Name three food poisoning microorganism with their respective condition, sources and symptoms of causing.
- 2. (a) What are the *two* directives that both manufacturers and users of food processing equipment should be aware of?
 - (b) Explain the ten principles of sanitary design.
- (c) Explain the typical cycle for CIP system.
- (d) What are the factors affecting the cleaning performance?
- 3. (a) What are the *two* types of compounds involved in biofilm formation? Write about the *two* different mechanisms in biofilm formation.
 - (b) What are the factors affecting biofilm formation?

(c)	What are	the	different	types	of	carrier
	for microl	oes	Sul sen			4

- (d) Classify different types of food borne illness.
- 4. (a) What is fumigation? What are the different fumigants that are used in processing plant?

Integrated pest management.

- (b) Explain the working principle of PCR.
- (c) Explain the factors for the growth of microorganisms.
- 5. (a) Define sanitation. How sanitation is related with food hygiene? 2
 - (b) Discuss any two methods to determine microbial load in a specific food. 6
 - (c) Write about the risk hazard characteristics. What are the risk categories based on the risk hazard characteristics?
 - (d) How common physical hazard can be prevented?

- 6. (a) What is Integrated Pest Management?
 Discuss the goals and merits of
 Integrated pest management. 6
 - (b) Explain the operation of high pressure, water pumps and portable high pressure, low volume cleaning equipment.

 4+4
 - (c) What are light traps? What are the different stages of light traps in a food processing plant should be installed?
- 7. (a) What is NPMA? What is the role of NPMA in food processing sites? 4
- (b) What do code of practise mean? When was it approved? What are the different parts of it?
 - (c) What are "pheromone"? How pheromone traps can be used in pest management? Explain.
- (d) Why is foam cleaning a proper and accepted methods of cleaning? Explain.