Total number of printed pages-4

53 (FPT 701) FHPS

2014

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.

- 1. (a) What is personal hygiene ? How many types of carriers are there ? 1+3
 - (b) Define disinfection ? What are the factors influencing the effectiveness of cleaning and disinfection ? 1+3
 - (c) Explain COP system in brief. What are the advantages of CIP over COP? 7+3
 - (d) Write the mode of action of the following disinfectants : 2
 - (i) Quanternary ammonia compounds
 - (ii) aldehydes

Contd.

- 2. (a) What is biofilm? What are the factors affecting biofilm formation? Explain in details the formation of biofilm on food processing surfaces. 10
 - (b) Name and explain the characteristic of any two food spoilage microorganisms. 2×2
 - (c) What are objectives of designs and facilities in maintaining the hygienic condition in a food plant ?
 - (d) Explain the role of location, equipment and facilities in maintaining the hygiene in food plants.
- 3. (a) Explain the *ten* principles of sanitary design. 10
 - (b) What are the factors affecting the cleaning performance. 4
 - (c) Explain the classification of clean compounds. 6
- 4. (a) What is fumigation ? What are the different fumigants that are used in food processing plant ? 5
 - (b) What are the main sources of cross contamination in a food processing plant? Explain. 5

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(c) What are the characteristics, hazard and related hazards for the following pests?

(i)	Brown rat	
<i>(ii)</i>	Ants	
(iii)	Cockroaches	

(d) Why is foam cleaning a proper and accepted method of cleaning?

- 5. (a) What are pheromones ? "Pheromones traps can be used in pest management". Justify the statement. 2+3
 - (b) Explain the typical cycle for CIP system.

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6

- (c) How can common physical hazards be prevented?
- (d) What is integrated pest management ? What are the goals and merits of integrated pest management ? 3+3
- (e) What are components of a rodent integrated pest management programs for food plants?

1

6. (a) Explain the operation of high pressure water pumps and portable high pressure-low volume cleaning equipment. 2×4

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different

Contd.

- (b) What is food spoilage ? What are the causes of food spoilage ? 1+4
 - (c) What are light traps ? What are the different stages of light traps in a food processing plant should be installed ?
- (d) What type of insecticides are used in space treatment to destroy?
- 7. *(a)* Write about risk hazard characteristics. What are the risk categories based on the risk hazard characteristics? 6
 - (b) Write the stages of cleaning and disinfection.
 - (c) What are the contents of food hygiene regulation? 3
 - (d) What do code of practice means ? When it is approved ? What are the different parts of it ? 1+1+4
 - (e) What are the sources of bacteria responsible for food poisoning ? 2

volume cleaning equipment.

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