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53 (FPT 701) FHPS

2018

**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) Define food hygiene in accordance with the current use. 2
- (b) Briefly explain how common physical hazards can be prevented. 5
- (c) What is Personal Hygiene ? What is the role of personal hygiene in maintaining hygienic condition in food processing industry ? 6
- (d) State the Codex General Principles of food hygiene. What are the two European Regulations for food hygiene ? 4+3

*Contd.*

2. (a) What are the *two* types of compound involved in biofilm formation ? Write about the different mechanisms in biofilm formation. 10
- (b) How sampling and detection of biofilm formation can be done in food processing sites ? 10
3. (a) What is Food Poisoning ? Show the food poisoning chains. 4
- (b) How hazard can be characterised ? Mention the risk categories based on ranking by hazard characteristics. 4
- (c) Explain how food safety objectives can manage microbial risks. 6
- (d) Explain the mode of action of sequestrants. 6
4. (a) Explain the working of autoclave with a neat sketch. 10
- (b) Explain the *ten* principles of sanitary design. 10
5. (a) Explain the CIP system in brief. What are the advantages of CIP over COP ? 10

- (b) What is Integrated Pest Management ?  
What are the goals and merits of  
Integrated pest management ? 10
6. (a) Enzyme cleaners have more advantages  
over traditional caustic soda or acid  
cleaning regimes. Explain. 6
- (b) Explain the working of high pressure  
water pumps and portable high  
pressure volume cleaning equipment. 6
- (c) Write *two* examples of each with  
composition of the following cleaners. 8
- (i) Alkaline cleaners with medium  
(ii) Low concentration of sodium  
(iii) Enzyme based  
(iv) Potassium and sodium blends.
7. (a) How many types of pest management  
standards are used in food industry ?  
Explain. 5
- (b) What are the insect traps used in food  
plants ? Explain the different stages of  
insect light traps. 6
- (c) Explain the working of PCR. 9

