

POST GRADUATE DIPLOMA IN FOOD  
SCIENCE AND TECHNOLOGY (PGDFT)

Term-End Examination

June, 2017

00463

MFT-004 : FOOD PACKAGING, SAFETY AND  
QUALITY MANAGEMENT

Time : 3 hours

Maximum Marks : 70

Note : Attempt any five questions. Question No. 1 is compulsory. All questions carry equal marks.

1. A. Write the full form of following (any seven) : 1x7=7
- (a) LDPE
  - (b) BOPP
  - (c) GAP
  - (d) GTR
  - (e) FSMS
  - (f) FSSAI
  - (g) SSOP
  - (h) ISO
- B. Define the following (any seven) : 1x7=7
- (a) Bulk packaging
  - (b) Tensile strength
  - (c) Water vapour transmission rate
  - (d) Canning
  - (e) Sanitizer
  - (f) Prion
  - (g) Food Safety
  - (h) Food hazard

2. Write short notes on the following (any four) : 3½x4=14
- (a) Active packaging
  - (b) Food adulteration
  - (c) EMS 14000
  - (d) Total quality management
  - (e) Export Import Policy
3. Differentiate the following (any seven) : 2x7=14
- (a) Vacuum packaging and MAP
  - (b) Rigid and Flexible packaging
  - (c) Chemical hazards and biological hazards
  - (d) Subjective and objective sensory evaluation
  - (e) Quality control and quality assurance
  - (f) Sanitizer and detergent
  - (g) ISO 9000 and ISO 22000
  - (h) Internal audit and external audit
4. (a) Classify the packaging materials. Write about the properties of packaging materials. 2+5
- (b) Explain the process of aseptic packaging. Define 'breathing' films and antimicrobial packaging with an example each. 3+4
5. (a) Explain any two pre-requisite programmes for ensuring quality and safety of final food products. 7
- (b) Describe the food characteristics which are used for sensory evaluation. 7
6. (a) Describe key features of ISO 17025. 7
- (b) Write about laboratory quality management system and its application in food industry. 7
7. (a) Write notes on WTO and Codex. 7
- (b) Narrate the salient features of FSS Act. 7
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