

00459

**POST GRADUATE DIPLOMA IN FOOD  
SCIENCE AND TECHNOLOGY (PGDFT)**

**Term-End Examination**

**December, 2017**

**MFT-004 : FOOD PACKAGING, SAFETY AND  
QUALITY MANAGEMENT**

*Time : 3 hours*

*Maximum Marks : 70*

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

1. (A) Write the full form of the following 1x7=7  
(any seven) :  
(a) HDPE  
(b) PVC  
(c) GHP  
(d) SPS  
(e) FSSA  
(f) TBT  
(g) BIS  
(h) PP
- (B) Define the following (any seven) : 1x7=7  
(a) Active packaging  
(b) Vacuum packaging  
(c) Shrink packaging  
(d) Food adulteration  
(e) Quality assurance  
(f) IPR  
(g) Gas transmission rate  
(h) Sensory evaluation

2. Write short notes on the following **3½x4=14**  
**(any four) :**
- (a) Aseptic packaging
  - (b) GM foods
  - (c) Effluent treatment plant
  - (d) ISO 22000
  - (e) PFA
3. Differentiate the following **(any seven) :** **2x7=14**
- (a) CAP and MAP
  - (b) Laminates and coextruded film
  - (c) O<sub>2</sub> scavenger and CO<sub>2</sub> scavengers
  - (d) Physical hazards and chemical hazards
  - (e) Detergent and sanitizer
  - (f) Mandatory and voluntary standards
  - (g) Canning and bottling
  - (h) GAP and GAHP
4. (a) What are the functions of food packaging ? **4**
- (b) Describe the packaging requirements for raw and processed dairy products and fruits and vegetable products. **5+5**
5. (a) Write about different types of tests used for sensory evaluation of food. **7**
- (b) Describe sanitation standards operating procedure for a food processing plant. **7**
6. (a) Explain the principles of HACCP. **7**
- (b) Narrate audit activities followed in a food processing plant. **7**
7. (a) Give the rationale and salient features of FSS Act. **7**
- (b) Explain the export import policy for Indian food industry. **7**