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MFT-004

Total No. of Questions : 7]

[Total No. of Printed Pages : 3

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

Term-End Examination

June, 2014

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

Time : 3 Hours]

[Maximum Marks : 70

Note :- Attempt total *Five* questions. Q. No. 1 is compulsory.
All questions carry equal marks.

1. Define the following with example (any *seven*) : 2x7=14
 - (a) Antimicrobial packaging
 - (b) Water activity
 - (c) Modified atmosphere packaging
 - (d) Genetically modified foods
 - (e) Physical hazard
 - (f) Sanitizer
 - (g) CFB boxes
 - (h) Triangle test
 - (i) Water vapour permeability

2. Fill in the blanks : 1x14=14
 - (a) Inert gas used in food packaging is.....
 - (b) The full form of SPS is.....

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Turn Over

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(2)

- (c) Kinesthetics is the study of food..... .
 - (d) Consumer panel usually consists of.....members.
 - (e) EMS 14000 is concerned about.....issues in food industry.
 - (f)is an example of voluntary Indian standard.
 - (g) CIP stands for..... .
 - (h)is an example of ethylene scavenger.
 - (i)is an example of biodegradable plastics.
 - (j) Lovibond tintometer is used in.....measurement.
 - (k) The full form of BOD is..... .
 - (l) ISO-17025 deals with.....quality management system.
 - (m) Argemone is an adulterant usually found in.....oil.
 - (n) WTO stands for..... .
3. Write short notes on the following : 5+5+4=14
- (a) GAP
 - (b) Equilibrium relative humidity study
 - (c) Food allergens
4. Differentiate the following : 7×2=14
- (a) Aseptic and Retort packaging
 - (b) Ecofriendly and recyclable packages
 - (c) Unit and bulk packaging
 - (d) ISO-9000 and ISO-17025
 - (e) Quality control and quality assurance
 - (f) Voluntary and mandatory food standards
 - (g) Oxygen scavengers and carbon dioxide scavengers

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(3)

5. (a) Describe the HACCP with respect to Dairy Industries.
(b) What are the preparations required by a laboratory before applying for accreditation ? 7+7=14
6. (a) Explain the salient features of FPO and MFPO.
(b) Design a unit functional packages for the following foods and compare with market packages :
(i) Glucose biscuit
(ii) Fruit Juices. 7+7=14
7. Answer the following :
(a) Write down the importance of export import policy and plant quarantine
(b) Describe the effluent and solid waste management of a food processing plant. 7+7=14

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