END SEMESTER EXAMINATION - 2019

Semester - 5th

Subject Code: FPT-504

FOOD STORAGE AND PACKAGING

Full Marks - 70

Time - Three hours

The figures in the margin indicate full marks for the questions.

GENERAL INSTRUCTIONS:

- Illustrate your answers with suitable sketches and examples wherever necessary.
- 2. Make suitable assumption(s) wherever applicable.
- 3. Preferably write the answers with sequential order.

PART - A

Marks - 25

- Write the full names of the following packaging materials:
 - (a) LDPE, (b) HDPE, (c) PET, (d) HIPS,
 - (e) PP, (f) PVC, (g) EVA, (h) OPP.

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- 2 Answer the following short questions: $1 \times 7 = 7$
- (a) What is shelf life of food?
- (b) How aseptic package integrity is evaluated?
- (c) Why vacuum packaging is useful for fresh food?
- (d) Why refrigerated storage of food improves shelf life?
- (e) Why MAP is useful?
- (f) Mention the name of any "active packaging system".

 (g) What packaging laminate is suitable for breakfast cereals?
- STATE WELLING
- Match the matters of Column-A with Column-B: 1×10=10

Column-A	Column-B
(i) Enzymatic browning	(a) MAP, MPFVs
(ii) Non-enzymatic browning (b) Pigment of fresh meat	(b) Pigment of fresh meat
(iii) Clostridium botulinum	(c) Lipid oxidation
(iv) Decay control	(d) Dairy and flesh food
(v) UHT milk	(e) Maillard reaction
(vi) Rancid flavor and fat bloom	(f) KMnO4 with inert sub strate filled in sachet to use inside package

Column-A	Column-B
(vii) Vacuum packaging	(g) Lethal food poisoning
(viii) Myoglobin	(h) Polyphenol oxidase
(ix) Packaging of horticulture (i) Fumigation products	(i) Fumigation
(x) Ethylene adsorber	(j) Aseptic packaging.

PART - B

李 付出

Marks - 45

10×3=30

- Answer any three questions: (a) Discuss packaging of dairy products.
- (b) Write about packaging of beverages like specifically mentioning the name of packagcoffee, tea, fruit juice, carbonated soft drink ing materials.
- (c) Briefly discuss about 'Active packaging system' specifically mentioning oxygen scavengers, ethylene scavenger, moisturezer absorber etc.
- (d) Write about suitable packaging laminates for also mention which parameters guide these breakfast cereals, snacks, biscuits etc. and factors.

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5. Write short notes on any two: $7\frac{1}{2}+7\frac{1}{2}=15$

- (a) Deteriorative reaction in food
- (b) Aseptic packaging system
- (c) MAP.



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