

Roll No.

S-8184

B. Sc. (Food Technology) (First Semester)

Examination, 2016-17

Paper Fourth

Bsft - 504

[Food Packaging]

Time : Three Hours]

[Maximum Marks : 60

Note : Attempt all questions.

Section - A

I. Multiple choice questions.

- (i) Cryovac is _____
(a) Method of preservation at low temperature
(b) Polyolefin material
(c) A disinfectant used during processing
(d) None
- (ii) Polystyrene packaging material is used for
(a) acidic foods
(b) Neutral foods
(c) Basic foods
(d) All of these
- (iii) 'C' anamel cans are used for
(a) Low acidic foods
(b) High acidic foods
(c) Medium acidic foods
(d) None acidic foods
- (iv) Packaging material for coffee, tea and confectionary goods contains :
(a) Paper/Aluminium/ LDP
(b) Paper/Aluminium/HDP
(c) Paper/Aluminium/ Low density polythene
(d) Paper/Aluminium/ High density polythene
- (v) What is cellophane?
(a) A cellobiose combined with ethane
(b) A cellulose combined with methane
(c) Regenerated cellulose
(d) It has no relation with cellulose
- (vi) Retort pouches are :
(a) Equipment used for the sterilization of pouches
(b) Pouch shaped retort used for the sterilization of packaging material
(c) Type of colour used for printing the LDPE used to pack low acid food
(d) Heat sterilizable flexible packs

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(1)

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- (vii) What is WVTR?
 (a) water to vapour transient rate (b) water to vapour transfer rate
 (c) water vapour transfer rate (d) water to vapour total ratio
- (viii) IPP stands for
 (a) Institute of plastic packaging (b) Institute of packaging professionals
 (c) Institute of packaging protection (d) Indian packaging professionals
- (ix) Bio-degradable plastic are made from :
 (a) starch (b) PHB
 (c) both (a) and (b) (d) None
- (x) Which one of the following is the correct sequence of the given plastic material used as packaging in increasing order of their oxygen properties?
 (a) EVOH, PVDC, PET and PP (b) PP, PET, PVDC, EVOH
 (c) PP, PVDC, PET, EVOH (d) EVOH, PET, PP, PVDC

Section — B

2. Write short notes on any five. Each carries 4 marks.
- Aseptic packaging
 - Cellophane
 - Biodegradable Plastics
 - Co-Polymers
 - Glass
 - PET
 - PVC

Section — C

Note : Attempt any three questions. Each carries 10 marks.

- What is food packaging? Explain its various functions. Write the factors to be considered during selection of packaging material.
- Explain the various Laws and Regulations of packaging.
- Describe the different forms of cellulosic and polymeric packaging materials and their applications.
- Give the composition and manufacturing process of glass. Briefly explain the properties of glass.
- Explain briefly about polyesters, Inomers, Tin-plate containers and Tin free steel containers.