B. Tech.
(SEM. VIII) EXAMINATION, 2006-07
FOOD PACKAGING

Time : 3 Hours] [Total Marks : 100

Note: Attempt all questions.

1 Attempt any two parts of the following : 10×2=20
   (a) What are “Package Development factors”? Enlist all of them and explain any two factors in brief.
   (b) What do you understand by “Packaging Science” and “Packaging Technology”? Explain clearly. Explain primary and secondary functions of a food package.
   (c) Describe the Aseptic Packaging for perishable liquid foods. What are its merits and limitations?

2 Attempt any two parts of the following:
   (a) Why polymeric materials are selected for food packaging purposes? Explain clearly ? 10
   (b) (i) Fill in the blank with appropriate word. 2×2=4
       (i) ______ is unit of thickness of film.
       (ii) SARAN is trade name of ______.
   (ii) Describe the physical-mechanical and barrier properties of PVC film. 6

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(c) What is the specific role of following in the processing of polymeric packaging materials?
(i) Fillers
(ii) Plasticizers
(iii) Phthalates
(iv) Antistatic agents
(v) Antifogging agents.

3 Attempt any two parts of the following: 10 \times 2 = 20
(a) What is the importance of glass containers in food contact application? Explain major advantages and drawbacks associated with selection of this packaging material.
(b) Describe the manufacture of two-piece cans and their advantages over three-piece cans.
(c) Write technical note on “Lacquers and their applications” in food packaging.

4 Describe the product characteristics and packaging requirements as well as suggest suitable materials and forms for any two of the following: 10 \times 2 = 20
(a) Spice and spice products
(b) Dairy products
(c) Cereal and snack products

5 Attempt any two parts of the following: 10 \times 2 = 20
(a) How would you test the performance of a glass container being used as package in food application?
(b) Describe the salient features of the Laws governing the labeling on a packaged food.
(c) What is “SWMA”? Explain very clearly ‘Misbranding’ under PFA Act.

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