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B.E. / B.Tech (Full Time) Arrear Examinations Nov/Dec 2011
Printing Technology Branch
VI Semester
PT 383 –Packaging Technology (R 2004)

Time: 3 Hrs.

Answer all questions
Part A (10x2=20 Marks)

Max. Marks 100

1. Briefly explain any two important factors that influencing the package design.
2. What are the top four attention grabbers in package design?
3. List any four applications of setup boxes in packaging.
4. Define Primary packaging, secondary packaging and distribution packaging.
5. Enumerate any four commonly used shrink films.
6. What are the advantages of vacuum packaging?
7. Draw the profile of parallel tuck-in carton and label it properly.
8. Define the terms 'elongation' and 'yield'
9. How compression strength of a corrugated board can be determined?
10. What do you mean by term 'sustainability' in packaging?

Part B (5x16=80 Marks)

11. Describe a suitable packaging technique for fruit juices. State the highlights of your selected package technique.

12. (a) With neat diagrams explain the manufacturing technique for beverage cans.

(OR)

12. (b)(i) Describe the advantages and disadvantages of fiber tubes and cans (8 Marks)

(ii) Explain the process used in the packaging of red meat. (8 Marks)

13. (a)(i) What are the different product formulations of aerosols? Briefly explain how these product formulations are achieved? (8 Marks)

(ii) Describe the manufacturing technique of aerosol cans. (8 Marks)

(OR)

13. (b)(i) List the elements in graphic design. Explain any three. (12 Marks)

(ii) Describe the applications of barcodes in packaging. (4 Marks)

(P.T.O.)

14. (a) A package design should start with a clear statement of what the package is supposed to achieve. Discuss some examples of package design objectives?

(OR)

14. (b) (i) Compare shrink wrapping and stretch wrapping. (8 Marks)

(ii) What are the different types of commonly used child resistant closures? (8 Marks)

15. (a)(i) Describe the procedure for finding the compression strength of a corrugated box.

(7 marks)

(ii) Why compression strength is higher than stacking strength? (3 Marks)

(iii) Briefly explain the factors which affect the compression strength of corrugated box.

(6 Marks)

(OR)

15. (b) Describe the significance of tensile strength, tensile energy absorption and stretch of paper board

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