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B.E / B.Tech (Full Time) DEGREE END SEMESTER EXAMINATIONS, APR / MAY 2014

Printing Technology

Semester V

PT 383 / PT 9302 & Packaging Technology

(Regulation 2004/2008)

Time: 3 Hours

Answer ALL Questions

Max. Marks 100

PART-A (10 x 2 = 20 Marks)

1. List the major functions of packing?
2. What is shelf life?
3. Write the difference between functional and aesthetic value in packaging?
4. What is PDP?
5. Define theory of creasing?
6. What are collapsible tube and its application?
7. What is ESD in electronics packaging?
8. Name the packaging materials used for export packaging.
9. Define fragile factor.
10. What is pin adhesion test?

Part – B (5 x 16 = 80 marks)

11. Why the testing is needed for packaging materials and explains in detail about the various types of pre-shipment test used for packaging.
12. a) Explain in detail about consumer research and sales promotion in package design.
(OR)
b) Draw the structural design of corrugated box along with different flute profiles and its characteristics.
13. a) Write the steps involved in manufacturing process of folding cartons and its applications?
(OR)
b) (i) Explain in detail about the manufacturing of composite cans/drums (10)
(ii) Discuss about molded pulp containers. (6)
14. a) (i) Briefly discuss about aseptic packaging. Mention its applications.
(OR)
b) Describe briefly about various export packaging materials with neat diagram.

15. a) Explain in detail about various types of packaging with their selection consideration?

(OR)

b) What is shelf life and explain in detail about any two shelf life estimation methods.