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B.E. / B.Tech (Full Time) DEGREE END SEMESTER EXAMINATIONS, NOV / DEC 2011
 PRINTING TECHNOLOGY BRANCH
 SEVENTH SEMESTER
PT 9401 - PACKAGING MATERIALS
 (REGULATIONS 2008)

Time: 3hrs

Max Marks: 100

Answer ALL Questions

Part - A (10 X 2 = 20 Marks)

1. Define Glass transition Temperature.
2. Name some biopolymers used for packaging.
3. What are the qualities of Timber to make a wooden container?
4. Define Lamination.
5. Define metallization.
6. What are the Properties of Aluminium Cans used in Packaging?
7. What are the adhesives used in Labelling?
8. What is mean by Closure?
9. Define Haze.
10. What is the use to find the barrier properties in packaging?

Part - B (5 X16 = 80 Marks)

11. What are the methods available for Hardness and corrosion test for metals? Explain any one method in both tests.
12. a. What are the properties of plastics used for packaging? Explain all the properties of any one plastic material used for packaging.
(Or)
- b. (i) Explain any two polymerization Techniques. (8)
 (ii) Explain the differences between Thermoplastics and Thermoset plastics. (8)
13. a. (i) Explain the Mechanical Properties of wood used for packaging. (8)
 (ii) What are the physical properties of Timber wood? (8)
(Or)
- b. Explain in detail about the Properties of Board considered for carton Making.
14. a. Explain the glass defects in detail.
(Or)
- b. What are the Properties of Aluminium Foil? Explain it in detail.
15. a. Explain in detail about the Label types.
(Or)
- b. Describe the manufacturing process of collapsible tube. Mention its advantages and limitations.