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B.E / B Tech.(Full -Time) DEGREE END SEMESTER EXAMINATIONS, April- May.2013
 PRINTING TECHNOLOGY BRANCH
 SEVENTH SEMESTER – (REGULATIONS 2008)
PT9401 – PACKAGING MATERIALS

Time: 3 hrs

Max Marks:100

- Instructions:
1. Answer all questions.
 2. All questions carry equal marks.
- Part – A (10 x 2 = 20 Marks)**

1. Write the advantages of plastics in packages?
2. What type of plastics are used in rigid packaging?
3. What is the processing technology used to convert a suitable application product in packaging?
4. What are woven sacks? Give two examples.
5. Name the types of drums used for bulk packaging applications?
6. What are applications of laminating papers in packaging?
7. Name the types of metals used in packaging applications.
8. What are advantages of nano materials in packaging applications?
9. What is the difference between haze and gloss?
10. What type of coloured glasses used in packaging applications?

Part – B (5 x 16 = 80 Marks)

11. (i) What are the advantages of flexible packaging?(4marks)
 (ii) Explain the properties and applications of LLDPE, LDPE, &PP in packaging.(12marks)
- 12.(a) Explain the process of blown film and cast film extrusion in detail.
 (or)
 (b) (i) Explain how folding box cartons are manufactured?(10marks)
 (ii) Write the types of pallets and barrels used in packaging applications (6marks)
- 13 (a) Discuss how glasses are manufactured ? write their properties.
 (or)
 (b) How collapsible tubes are manufactured? Write their applications
- 14.(a) Discuss the types of closures and materials used for making closures in detail
 (or)
 (b) Explain in detail the types of labels used in packaging?
- 15.(a) Explain how the following test are carried out for the plastic film used in Packaging (i) tensile (ii) WVTR test (8marks each)
 (or)
 (b) Explain the importance of the following tests with respect to materials used in packaging.
 1. Solvent retention 2. Clarity & brittleness for glass (8marks each)