	(3 Hours) Marks: 80	7.6
NB:	<ol> <li>Question No. 1 is compulsory.</li> <li>Attempt any three questions from remaining five questions.</li> <li>Indicate question no. properly.</li> </ol>	
1.	Write Short note on (any four)	
	<ul><li>a) Wooden Dunnages</li><li>b) Consumer packaging vs industrial packaging</li></ul>	5
	c) Intermediate bulk containers	5
	d) Hardwood vs Softwood	) 5 5 5
	e) Significance of wood seasoning	5
2.	a) Develop a package for 1-litre HCL acid on packaging considerations for a chemical product	10
	b) In industrial packaging emphasis is more on protection of the product rather than the attractiveness. Justify with reasons	5
	c) Explain various tests that are done for testing of industrial products packaging.	5
3.	a) State five differences in package design approach for any two light engineering products.	10
	b) What is the purpose of Cushioning? Explain the selection criteria for cushioning material	10
4.	a) State and draw two classes of box pallets and explain the three types of box pallets with their designated symbols	10
	b) Describe product and machine related attributes for the soap & detergent package	10
5.	a) Explain any five types of wood defects	10
	b) With suitable diagram explain Stringer and Block pallets	10
6.	a) Describe in detail packaging process of engine oil and elaborate package testing of engine oil.	10
9,44	b) Give the importance of density & moisture in wood.	10

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