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BIMEE-020

B.Tech. – VIEP – MECHANICAL ENGINEERING (BTMEVI)

00909Term-End Examination December, 2014

BIMEE-020: MATERIALS HANDLING

Time: 3 hours		hours Maximum Marks :	Maximum Marks : 70	
Note: Attempt any five questions. All questions carry equal marks.				
1.	(a)	Write down the importance of material handling in industry.	7	
	(b)	How is material handling related to plant layout? Explain.	7	
2.	(a)	Enumerate the various functions of material handling. Describe each of them in brief.	7	
	(b)	Explain the various principles of material handling.	7	
3.	(a)	Describe in brief the different basic material handling systems, giving specific applications of each.	7	
	(b)	Write a short note on "Selection of material	7	

4.	(a)	What are conveyors? State their uses.	7
	(b)	Sketch any two types of conveyors. State their specific uses.	7
5.	(a)	Under which conditions should the employment of the following devices be considered? (i) Cranes and hoists (ii) Power Conveyors and Lift trucks	7
	(b)	Sketch and describe any two material handling equipments used in small scale production.	7
6.	(a)	Describe in brief the connection of material handling with the following: (i) Slides and Chutes (ii) Mono-rails	7
	(b)	Explain the procedural approach to be adopted for analysis of material handling problems and development of low cost material handling system.	7
7.	(a)	"The best handling is no handling" and if this cannot be achieved "minimum handling should be tried". Justify this statement.	7
	(b)	Explain how the use of Robots and Automated Guided Vehicles as material handling devices helps in Automation.	7