B.Tech. MECHANICAL ENGINEERING (BTMEVI)

Term-End Examination December, 2013

BIMEE-020: MATERIALS HANDLING

Time: 3 hours		ours Maximum Marks	Maximum Marks: 70	
Note: Attempt any five questions. Each question carries e marks.			qual	
1.	(a)	What are the general principles of cargo handling?	7	
	(b)	Explain the types of equipments and their maintenance in material handling.	7	
2.	(a)	What is straddle carrier? Explain different types of trucks used in material handling.	7	
	(b)	Explain the working of hand pallet trucks and stokers.	7	
3.	(a)	Elaborate different types of casts and trolleys used in material handling.	7	
	(b)	Sketch and explain the working of air cushion handling frames.	7	
4.	(a)	How different types of conveyers help in material handling industry? Explain in detail.	7	
	(b)	Discuss on line restricted material handling equipments.	7	

- 5. (a) What is a trolley? Explain different types of trolleys in detail.
 - (b) How the elevators and lifts are used in construction sites for material handling?

 Explain.
- 6. (a) What is the need of a good ware house layout? Explain how it helps in the materials flow in industrial processing.
 - (b) What is a Crane? Explain the working of Jib cranes for transfering the materials.
- 7. Write short notes on the following: 3.5x4=14
 - (a) Batched goods
 - (b) Automatically Guided Vehicles
 - (c) Mobile lifting frame
 - (d) Receiption and dispatch equipment