

IV B.Tech I Semester Supplementary Examinations, November 2005
MECHANICAL HANDLING EQUIPMENT

(Common to Mechanical Engineering and Production Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Discuss the different types of pallet containers that are used in industries. [16]
2. (a) What are conveyors? State their applications.
(b) How is power transmission requirement estimated in conveyors?
[8+8]
3. (a) How roller conveyor can be used to handle unit loads?
(b) What are the differences between roller conveyor and belt conveyor?
[8+8]
4. (a) State the differences between tractors and trailers in terms of function, advantages, limitations, applications and cost.
(b) Discuss the advantages and disadvantages of crawler tractor.
[10+6]
5. What is meant by a hopper? Explain its uses in feeding equipments. [16]
6. What is a vibrating feeder? Explain its working principle. [16]
7. Distinguish between the power transmission by chains, ropes and wire ropes in hoisting equipment. [16]
8. Sketch and explain a hydraulic jack. [16]
