

FACULTY OF ENGINEERING

B.E. 2/4 (Civil) II – Semester (Old) Examination, January 2013

Subject : Mechanical Technology 'Part – B'

Time : 1 ½ hours

Max. Marks : 37

Note: Answer all questions from Part-A. Answer any Three questions from Part-B.

PART – A (13 Marks)

1. Mention the types of earth compactors and their applications. (3)
2. Differentiate between bucket conveyor and apron conveyor. (3)
3. Sketch the worm geared chain hoist and its applications. (3)
4. Where and when concrete pump is used? (2)
5. Write applications of reciprocating air-compressor. (2)

PART – B (24 Marks)

- 6.a) Explain the construction and operation of a cable excavator, give its applications. (4)
b) Differentiate between bulldozer and scraper. (4)
- 7.a) Explain the operation and application of aerial rope-way. (4)
b) Discuss the operation and application of a fork lift truck. (4)
8. Explain the gyratory crusher used for the production of aggregates and describe its operation. (8)
- 9.a) What is the function of screen? List the types of screens. (4)
b) Explain the applications and operation of Jack hammer. (4)
10. Write short notes on any two of the following : (8)
 - a) Concrete vibrator
 - b) Concrete mixers
 - c) Mobile cranes
 - d) Dragline
