



Code No. : 5419/B/N

**FACULTY OF ENGINEERING**  
**B.E. 2/4 (Civil) II Semester (New) (Main) Examination, May/June 2012**  
**MECHANICAL TECHNOLOGY (Part – B)**

Time : 1½ Hours]

[Max. Marks : 37

**Note :** Answer *all* questions from Part – A, Answer *any three* questions from Part – B.

**PART – A**

**(13 Marks)**

1. Give applications of (i) Scraper (ii) Tractor (iii) Cable excavator. 3
2. What are the advantages of belt conveyer over screw conveyer ? 2
3. What is the principle of differential chain hoist ? 3
4. What are the advantages of shaking screen over stationary screen ? 3
5. Enlist the applications of jackhammer. 2

**PART – B**

**(3×8=24 Marks)**

6. a) Explain the construction and operation of a Dragline. 4  
b) Explain the operation and applications of bucket wheel excavator. 4
7. Differentiate between bucket conveyer and Aerial ropeway. 8
8. a) Explain the working principle of a Whirler Crane. 4  
b) Explain the operation and applications of a fork lift truck. 4
9. Explain the construction and working principle of a Jaw Crusher. 8
10. a) Differentiate between concrete pump and concrete vibrator. 5  
b) Explain the operation and applications of a paving breaker. 3