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Code No. : 22014/MT

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD
B.E. (Civil Engg.) II Year II-Semester Main & Backlog Examinations, May-2017

Mechanical Technology

Time: 1½ hours

Max. Marks: 35

Note: Answer ALL questions in Part-A and any THREE from Part-B

Part-A (11 Marks)

1. What is function of a dragline? [1]
2. What is the load up to which chain hoists are commonly used? [1]
3. Where a concrete can be specifically used? [1]
4. What is a Compactor? [1]
5. List the advantages of pneumatic equipment. [1]
6. What are the applications of trenchers? [2]
7. Differentiate between Screw Conveyor and Apron Conveyor. [2]
8. What are the applications of Concrete Vibrator? [2]

Part-B (3 × 8 = 24 Marks)

9. a) Describe a Basic Shovel and show how it can be converted into different mechanisms. [4]
b) Explain the operation of a Bucket Wheel Excavator with a neat sketch. [4]
10. a) Explain the operation of Aerial Ropeway with a neat sketch. [4]
b) Explain the construction and operation of a Derrick Crane. [4]
11. a) Explain the operation of Paving Breaker with a neat sketch and mention its applications. [4]
b) Differentiate Jaw Crusher and Gyratory Crusher. [4]
12. Write short notes on any *two* of the following:
 - a) Cable excavator [4]
 - b) Bucket conveyor [4]
 - c) Working of concrete pump [4]

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