

Hall Ticket Number:

--	--	--	--	--	--	--	--	--	--	--	--

Code No. : 22005

**VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD**  
**B.E. II Year (Civil) II-Semester (Main) Examinations, May-2016**

**Mechanical Technology**

Time: 1 ½ hours

Max. Marks: 35

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

**Part-A (11 Marks)**

1. Name any six construction equipment. [1]
2. Distinguish between Conveying and Hoisting. [1]
3. List the functions of a Concrete Vibrator. [1]
4. Identify any two applications of Earth Compactor. [1]
5. What do you mean by Aggregate? [1]
6. Sketch any one Earth Moving Equipment. [2]
7. Sketch Differential and Worm Chain Hoist. [2]
8. Explain the use of Compressed air in the construction field. [2]

**Part-B (3X8=24 Marks)**  
**(All bits carry equal marks)**

9. a) Explain the working of a Dragline with a neat sketch.  
b) Differentiate between Bucket Wheel and Cable Excavators.
10. a) Explain the working of a Screw Conveyor with a sketch and how it differs from other Conveyors?  
b) Compare Swing and Non-Swing mobile cranes.
11. a) With a neat sketch explain constructional features of any one Pneumatic Equipment.  
b) Illustrate working of a Concrete Mixer.
12. Answer any **two** of the following:
  - a) Different types of Shovels and explain anyone with a neat sketch.
  - b) Describe the criteria for selecting an Aerial Rope way.
  - c) Sketch all types of Screens.

\*\*\*\*\*