



**MUZAFFARPUR INSTITUTE OF TECHNOLOGY, MUZAFFARPUR**  
**B.Tech 5<sup>th</sup> Semester Weekly Examination (16 July 2018)**  
**Soil mechanics I**

**Time: 20 min.**

**Full Marks: 10**

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**Instructions:** (i) All questions are compulsory.  
(ii) All questions have equal marks.

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**Name:**

**Roll No.**

1. Write the range of the following quantity.
  - a. Degree of saturation
  - b. air content
  - c. void ratio
  - d. porosity
  - e. percent of air void
2. Write the name of engineering properties of soil.
3. Write expression for specific gravity of soil for pycnometer test.
4. Write name of transported soil.
5. Arrange density of soil, bulk density, saturated density, dry density in increasing order.
6. Arrange the following soil in increasing size of particles. Gravel, clay, sand.