

## Home Practice

## 2102ENG Soil Mechanics

*These problems are only for practice, it doesn't mean that the same or similar problems will be in the mid semester exam. The solutions are given in a separate file.*

**Question 1.** During a field density test 1880 g of soil was excavated from a hole having a volume of 900 cm<sup>3</sup>. The oven-dried mass of the soil was 1640 g. Specific gravity of the solids is  $G_s=2.69$ .

Determine:

- a) The water content
- b) The dry density
- c) The void ratio
- d) The degree of saturation
- e) The volume of air

**Question 2.** The results given in Table 1 are obtained from a series of standard compaction tests:

Table 1.

|                            |        |        |        |        |        |        |
|----------------------------|--------|--------|--------|--------|--------|--------|
| Mass of compacted soil (g) | 1922.5 | 2051.5 | 2138.5 | 2147.0 | 2120.0 | 2081.5 |
| Water content (%)          | 12.0   | 13.2   | 14.0   | 14.8   | 15.9   | 17.5   |

The specific gravity ( $G_s$ ) of the solids is 2.70, and the volume of the compaction mould is 1000 cm<sup>3</sup>.

- a) Plot the dry density vs. water content curve and obtain the maximum dry density and optimum water content.
- b) At the maximum dry density, calculate the void ratio, degree of saturation and air content.

# Msce 2015 Practical Questions

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