

**Birzeit University**  
**Faculty of Engineering**  
**Department of Civil and Environmental Engineering**

**ENCE 331, Soil Mechanics**

**Quiz #2**

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1. The bulk (moist) unit weight of a soil is  $19.1 \text{ kN/m}^3$ , and the moisture content is 20%. If the specific gravity of the soil solids is 2.75:
- For  $1 \text{ m}^3$  of this soil, fill the quantities in the block diagram shown below.
  - What is the void ratio,  $\gamma_d$ , and Degree of saturation?
  - If this soil to be compacted, what is the maximum bulk specific gravity and degree of saturation can we get?

