



First exam in practical soil science

Q1. Fill in the blanks

40%

1. Soil electrical conductivity is
2. Essential nutrients are most available to most plants at a pH betweento
3. The CEC increases when pH
4. At saturation, soil pastelight andwhen the spatula with saturated soil is tapped.
5. Saturation percent of soil =

Q2. what is the EC of a soil with the following ion concentrations?

30%

Ion	Ca ²⁺	Mg ²⁺	K ⁺	Na ⁺	HCO ₃ ⁻	CO ₃ ⁼	Cl ⁻	SO ₄ ⁼
Conc, meq/L	1	2	1	0.5	2	1	1	0.5

Q3. What is the EC of a soil at 25c, if its EC at room temperature (21c) was 3.1 dS/m

30%

With our best wishes

Examiner
Chra Othman Hama-Ameen
Assist lecturer