

Salahaddin University

College of Agriculture

Dept. Soil and water



2021-2022

Soil Chemistry/ practical

2nd Year

Time: 1 h

Q1. Correct the following EC meter reading the EC meter $EC = 4.1 \text{ dSm}^{-1}$ at temperature = 95°F .

If you know that $F^{\circ} = 1.8 C^{\circ} + 32$

Q2. What is CEC and what are the Principles of soil CEC determination?

Q3.

- a. Methods for determination of soil pH are...
- b. Essential nutrients are available for most plants at soil pH between
- c. The objectives of EC measurement are:

Q4. Calculate total lime if you are given the following information:

5 g soil sample from Girdarasha placed in 250 ml flask, **50 ml of 1N HCl** added, shaken then filtered, **10 ml** of the filtrate was taken, **3drops** of **phenolphthalein** indicator added, then titrated **with 9 ml of 1N NaOH** to give pink color.

Good luck

Msc Chra Othman