## Salahaddin University Agriculture College Soil and Water Department



 $2^{nd}$  year students Date: 19/5/2022

Time: 1 hrs

## First exam in practical soil science

Q1. Fi	Il in the blanks  The CEC increases when pH  the principles of measuring CEC are a b c  methods for determination of soil organic matter include	
1.	The C	EC increases when pH
2.	the pri	nciples of measuring CEC are
	a.	
	b.	
	c.	
3.	metho	ods for determination of soil organic matter include
	a.	
	b.	
	c.	
4.	points	to be considered when taking soil sample include
	d.	

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

e. .....

Ion	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	HCO <sub>3</sub> -	$CO_3^=$	Cl <sup>-</sup>	$SO_4^=$
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

With our best wishes

Examiner Chra Othman Hama-Ameen Assist lecturer