



***First exam in practical soil science***

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**Q1. Fill in the blanks**

- 1.** The CEC increases when pH .....
- 2.** the principles of measuring CEC are
  - a. ....
  - b. ....
  - c. ....
- 3.** methods for determination of soil organic matter include
  - a. ....
  - b. ....
  - c. ....
- 4.** points to be considered when taking soil sample include
  - a. ....
  - b. ....
  - c. ....
  - d. ....
  - e. ....

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

Ion	Ca <sup>2+</sup>	Mg <sup>2+</sup>	K <sup>+</sup>	Na <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	CO <sub>3</sub> <sup>-</sup>	Cl <sup>-</sup>	SO <sub>4</sub> <sup>-</sup>
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  
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