

# School of Agriculture

Agriculture  
ETE - Jun 2023

Time : 3 Hours

Marks : 100

## Sem II - A1UA205B - Fundamentals of Soil Science

*Your answer should be specific to the question asked*

*Draw neat labeled diagrams wherever necessary*

1. Illustrate edaphological concepts of soil. K2 CO1 (5)
2. Match the following: K1 CO1 (5)

a	Clay	2-4 mm
b	Silt	>0.05 mm
c	Sand	<0.002 mm
d	Gravel	4-64 mm
E	Pebble	0.002-0.05 mm
3. What do you understand by soil fertility? K1 CO1 (5)
4. Build a well labelled diagram of soil profile. K3 CO2 (10)
5. Categorize the salt affected soils in the basis of various characteristics. K4 CO5 (10)

### OR

- Examine the factors responsible for the formation of acid soils. K4 CO5 (10)
6. Identify the forces that are responsible for the retention of water in soil. K3 CO2 (10)
  7. Illustrate all specific soil forming processes. K2 CO1 (10)
  8. Build a diagram indicating the effect of soil pH on the availability of the essential plant nutrients. K3 CO2 (15)
  9. Categorize the general properties of soil colloids. K4 CO3 (15)
  10. Explain the factors that affects the soil organic matter. K5 CO4 (15)

### OR

- Explain the kinds of soil pollution and their management in detail. K5 CO4 (15)