

Grade 11 Agricultural Sciences M...

(b) Water rises the slowest

(1)

3.2.5 Give a reason for the answer in QUESTION 3.2.4 (a) and (b).

(2)

Hide Answers

3.2 Handling facility

3.2.1 Formulation of hypothesis

In clay soil water moves slowly ✓ to reach the greatest height ✓

OR

Sandy soil has a low capillarity ✓ than clay soil/ vice versa ✓

(Any 1 x 2)

(2)

3.2.2 Type of water movement demonstrated

Capillary movement / Capillarity ✓

(1)

3.2.3 Labelling of soils

Soil A – Clay ✓

Soil B – Sand ✓

Soil C – Loam/silt ✓

(3)

3.2.4 Indicating the soil where the following occurs

(a) Water rises most rapidly – Sand ✓

(1)

(b) Water rises the slowest – Clay ✓

(1)

3.2.5 Reason for the answer

The rapid rise of water in sandy soil is the result of a large number of macro-pores which allow rapid water movement ✓ and the micro-pores in clay retard the motion of water ✓

(2)

3.3 The data below shows the soil temperature readings at two different depths measured from 06:00 until 18:00.

Time	Temperature reading on the surface (°C)	Temperature reading 20 cm deep (°C)
06:00	08	04
08:00	10	04
10:00	14	05
12:00	21	12
14:00	27	16
16:00	24	18
18:00	19	16

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