

# RESOURCEFUL MOCK 2017

Uganda Certificate of Education

PRINCIPLES AND PRACTICES

OF AGRICULTURE 527/2

Practical paper

Time: 1½ hours

Attempt *all*

1. You are provided with specimens G, H and I
  - a. State where and for what purpose each specimen is used in a farm tractor.
 

G.....

H.....

I .....
  - b. Describe the properties of each specimen which make it suitable for its purpose.
 

G.....

ii) .....

H.....

ii) .....

I.....

ii) .....
  - c. State one common way in which the quality of each is reduced.
 

G.....

H.....

I .....

2. Specimen C, D and E are soil samples
  - a. Fit a filter paper into a funnel and place the funnel onto a measuring cylinder. Measure 40cm<sup>3</sup> of C and pour it into the funnel. Add 50cm<sup>3</sup> of water onto C at the same start a stop clock.
    - i) Note the time when the first drop of water is released into the cylinder and record in the table
    - ii) After 5 minutes record the volume of water collected in the measuring cylinder.
    - iii) Repeat the procedures for specimens D and E

Specimen	Time when first drop is released	Volume of water collected after 5 minutes

A		
B		
C		

b. Explain why

i) The time taken for the drop of water to be released from the specimens different.

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ii) The volume of water collected from the specimens after 5 minutes differs

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c. i) For the specimen that took the longest time to released the first drop of water, suggest how it can be improved to increase the speed.

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ii) For specimen that allowed most water to pass through after 5 minutes, suggest how it can be improved to allow less water pass through.

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**END**