

WANYANGE GIRLS SECONDARY SCHOOL  
S.2 COVID HOLIDAY WORK

1. a) Explain the farming practices that can lead to destruction of soil structure
- b) What precaution would a farmer take to ensure that soil structure is not destroyed?
  
2. Two garden soil samples A and B both weighing 100g were set aside in a room for some hours. 50g of water was added to sample A and then weighed. The weight was 148g.

Sample B was heated in an oven at 100<sup>0</sup>C to a constant weight of 95g. It was further heated to 140<sup>0</sup>C up to a constant weight of 92g.

The table below represents the weight of soil sample A and B after addition of water and when exposed to different temperatures respectively.

Soil Sample	Weight at collection	Weight after a addition of H <sub>2</sub> O	Weight after heating to 100 <sup>0</sup> C	Weight after further heating to 140 <sup>0</sup> C
A	100g	148g	95g	92g
B	100g			

From the above information

- (a) What do you think was responsible for the loss of weight when 50g of water was added to 100g of soil sample A
  - (b) What was the percentage weight loss of soil sample A.
  - (c) Account for the change in weight of soil sample B.
  - (d) What was the percentage loss of soil sample B?
3. The table below shows the results of an experiment carried out to determine the percentage of air in three types of soils. Study it and answer the questions that follow.

Type of soil	Percentage of air by volume
X	46
Y	25
Z	10

- (a) Which of these soil types X, Y, Z would have the best drainage?
- (b) (i) Which one of the soil types would be most suitable for crop growth?  
(ii) Give reasons for your answer in b(i) above
- (c) Suggest the identities of the soil types  
X.....  
Y.....  
Z.....

GOD BLESS  
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