

Name:.....Sign:.....

## **BIOLOGY DEPARTMENT, 2023**

### **S.2 MID TERM II EXAM**

**TIME 2 HOURS.**

#### **INSTRUCTIONS**

- Attempt all questions in section A and B
- All answers should be written on the booklet provided to you
- All drawings and some part of the graph should be for the pencil
- Unnecessary crossing will lead to loss of marks
- No external graph is allowed

#### **SECTION A (30 Marks)**

1, Think Humanity students had a field study tour on 7<sup>th</sup> July, 2023 at Butiaba Landing site and other areas around, a lot of things were learnt on nature of plants, soil, water bodies, transpiration on plants. What surprised many students' soils were not fertile. A number of animals were seen like fish, baboons and many others.

#### **SUPPORT MATERIALS**



a). i) From the above, what is meant by the term transpiration (02 Marks)

ii) State the factors affecting the rate of transpiration which were observed  
(05marks|)

i) How do plants from Butiaba landing site reduce on the rate of transpiration  
(04 marks)

ii) How is transpiration important to plants located in Butiaba Landing site  
(04 marks)

iii) Name one other process observed apart from transpiration.

a) i) State two problems identified on the soil of the Landing site (02 marks)

ii) How can the above soil be made fertile as a student who has studied soil

iii) State the importance of soil to animals (02 marks|)

C) From the above, fish was identified, state the class and phylum the above animal belong

i) Phylum (1/2 Mark)

ii) Class (1/2 Mark)

b) State the characteristics of fish as an animal (02 marks)

ii) Name the class and kingdom of the animal mentioned above in the story  
(02 marks).

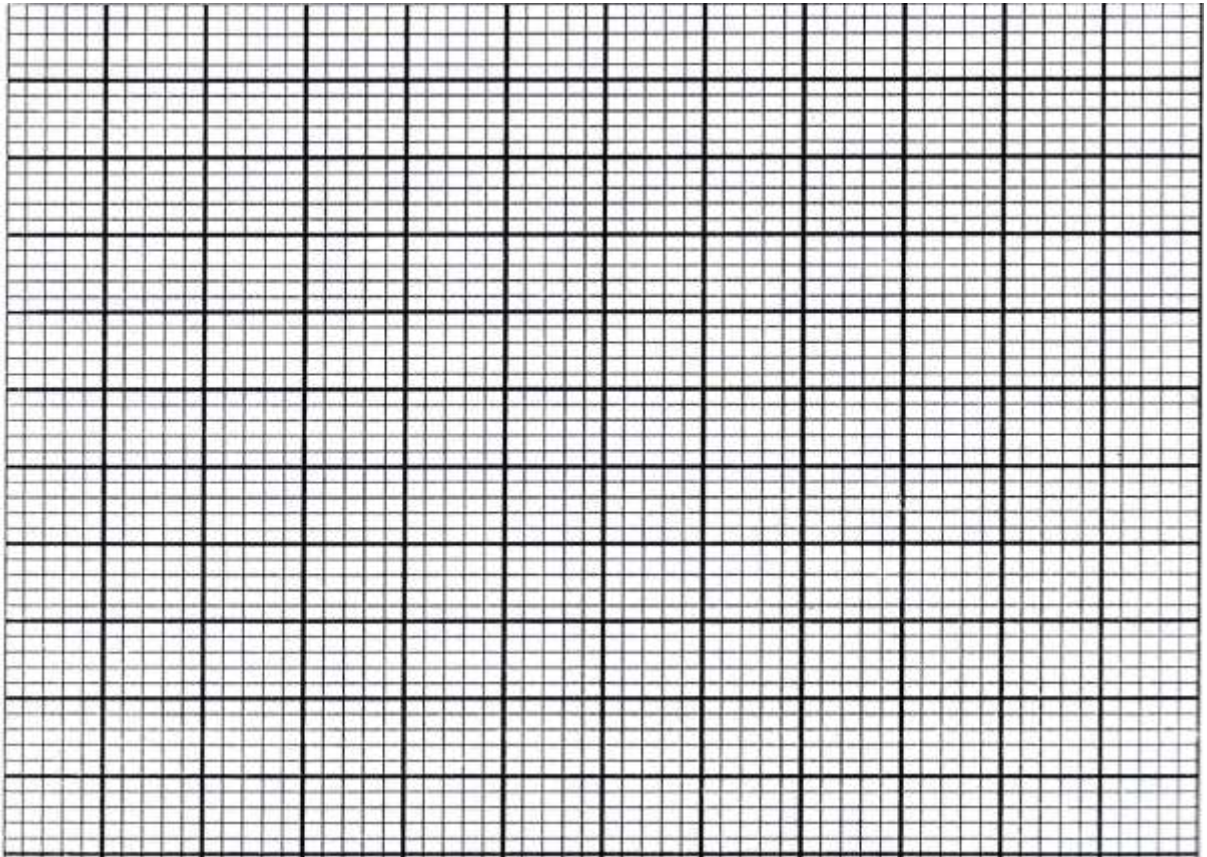
### SECTION B (25 Marks)

2. An experiment was carried out by students of s.2 during a lesson of biology. Students realized that there was changes on the number of drops of DCPIP with the boiling of cabbage ( $^{\circ}\text{C}$ )

The results were recorded in the table below.

Boiling of Cabbage ( $^{\circ}\text{C}$ )	0	4	10	15	25	45
Number of Drops of DCPIP	2	5	10	35	40	120

- a) Plot a graph to represent the above information on the table above (08 marks)



- b) Explain for the changes above on the graph (04marks)  
c) Name the type of Vitamins found in the cabbages (01 marks)  
d) Name other foods with the above Vitamins (02marks)  
e) State other types of foods apart from vitamins (03 Marks)  
f) What are the importance of the above foods (03 Marks)

**END**

**TRY TO MAKE SURE THAT YOUR BETTER THAN YESTERDAY**