FORM THREE
BIOLOGY PRACTICAL
END OF TERM 2 EXAM

NAME ………………………..…………………….ADM……………….CLASS……….
Answer all the questions in the spaces provided.

1. You are provided with chemical reagents **Q** (**Iodine solution**), **R** (**NaOH**), **S** ($CuSO_4$), **T** (**DCPIP**)and food solution **X**
Using the reagents provided carry out food test on solution **X**
(a) Record your results in the table below.   (12marks)

Food substance		Observation	Conclusion

(b) Suggest the importance of food substance present in solution **X** in a human body.   (2mks)

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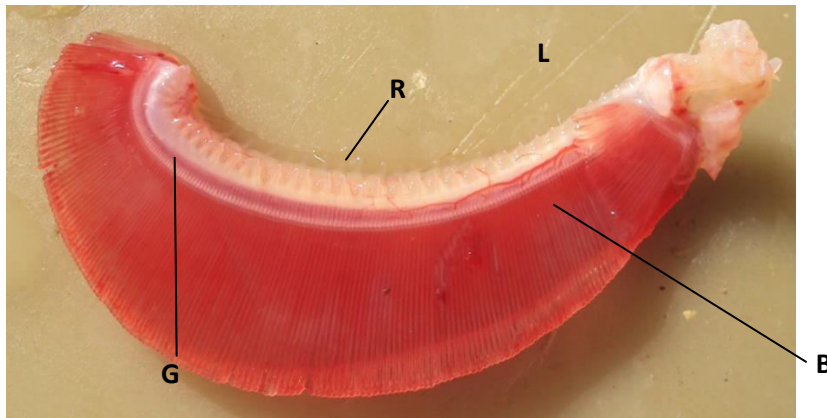……

2. Below is a photograph of a certain animal. Examine it and answer the questions that follow.

a) Giving a reason in each case, classify the animal into the taxonomic units in the table below.
(4 marks)

Taxonomic unit	Name of taxonomic unit	Feature
Phylum		
Class		

(b)Study the photograph shown below part of animal above.

 List adaptive characteristics of part labeled **G** to its function.   (4mks)

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(c).The following illustration shows a flow in the photograph shown above.

Blood capillary

15   90
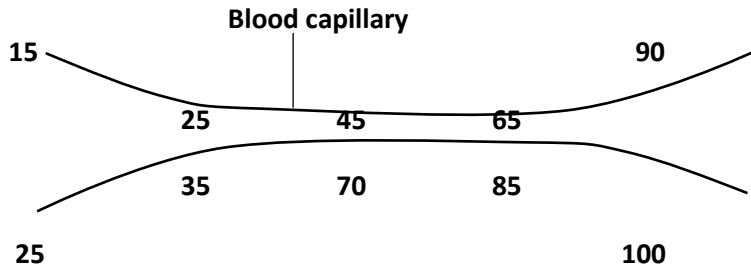
25   45   65   N/B; Figures show O_2
                        SATURATION

35   70   85

25   100

(i) Indicate on the illustration the direction of blood and water flow.   (1mk)

(ii)Name the type of flow represented in the illustration   (1mk)

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(d)(i)Name the process by which oxygen leaves water into capillaries of filaments.   (1mk)

………

(ii)What condition enables an efficient exchange of oxygen by process identified in d(i) above

…….(1mk)

(e)The atmospheric air has more oxygen than that dissolved in water yet a fish dies immediately
after being withdrawn from water. Explain.   (1mk)

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3.Study the photographs of plant structures shown below then answer the questions.

X1   X2

X3

X4

Q

R2

(a)For each type of structure shown above state a dispersal agent   (4marks)

Structure	Dispersal agent
X1	
X2	
X3	
X4	

(b)Name the observable adaptive features in **X1** and **X2** that enable them to be dispersed by the dispersal agent identified.   (2marks)

Structure	Adaptive features
X1	
X2	

(C)(i) Give possible description of leaves and roots of plant of flower labeled **R2**.

Roots…………………………………………………………………………………,…….(2mks)

……………………………………………………………………………………………..

Leaves   (3mks)

……………………………………………………………………………………………..

……………………………………………………………………………………………..

……………………………………………………………………………………………..

(ii) Flower **R2** has polypetalous characteristic. Explain.   (1mk)

…………………………………………………………………………………………..

(iii) Name part labeled **Q** on **X3.**   **(1mk)**

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