KCSE PREDICTION EXAMS SERIES, 2024

Kenya Certificate of Secondary Education

443/ 3 **Biology - Paper 3**

(Practical)

T3- 2024 – Time 2 hours

KCSE TRIAL EXAMS, 2024

Name …… Adm Number……..

Candidate's Signature ……..…… Date ……

INSTRUCTIONS TO CANDIDATES

1. Write your name, class and admission number in the spaces provided above.
2. Sign and write the date of the examination in the spaces provided.
3. Answer all questions in the spaces provided.
4. You are required to spend the first 15 minutes of the 1 ¾ hours allowed for this paper reading the whole paper carefully before commencing your work.
5. Additional pages must not be inserted.
6. Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing

FOR EXAMINERS USE ONLY

Section	Maximum Marks	Candidate Score
1	13	
2	16	
3	11	
TOTAL SCORE	**40**	

KCSE 2024

1. You are provided with three sets of seedlings labelled A, B and C.

   Examine them and answer the questions that follow:

   (a) State the conditions under which seedling A and B were grown. (2marks)

   A ……

   B……

   (b) (i) Name the type of germination exhibited by the seedlings. (1mark)

   ……

   (ii) Give a reason for your answer in b (i) above. (1mark)

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   ……

   (c) List two observable differences between seedlings A and B. (2marks)

A	**B**

   (d) Name the term used to describe the phenomenon exhibited by specimen **B**(1mark)

   ……

   (e) (i) Name the response exhibited by the seedlings labelled **C**. (1mark)

   ……

   (ii)Explain how the response named in (e) (i) above occurred. (2marks)

   ……

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   (f) Separately, pluck, cut and crush the leaves from seedling **A** and **B.**

   Place the crushed extract into separate test-tubes labelled $\mathbf{A_1}$ and $\mathbf{B_2}$.

   Add 2ml of water to form solutions A_1 and B_1 respectively.

(i) Using the reagent provided, carry out food test on $\mathbf{A_1}$ and $\mathbf{B_1}$. (4 marks)

Test for	Procedure	Observation	Conclusion

(ii) Account for the results obtained (f) (i) above. (2marks)

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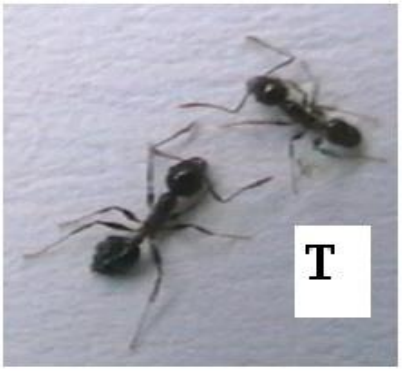
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2. Below are photographs of animals labeled R and T. Study them carefully and answer the questions that follow.





a)

i) Name the phylum to which the animal in photograph **R** belongs. (1 mark)

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ii). List **three** characteristics found in members belonging to the phylum of specimen **R** only. (3 marks)

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iii). Which class does the animal in photograph **R** belong. (1mark)

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b). Using observable features only, state three differences between animals in photograph **R** and **T** (3marks)

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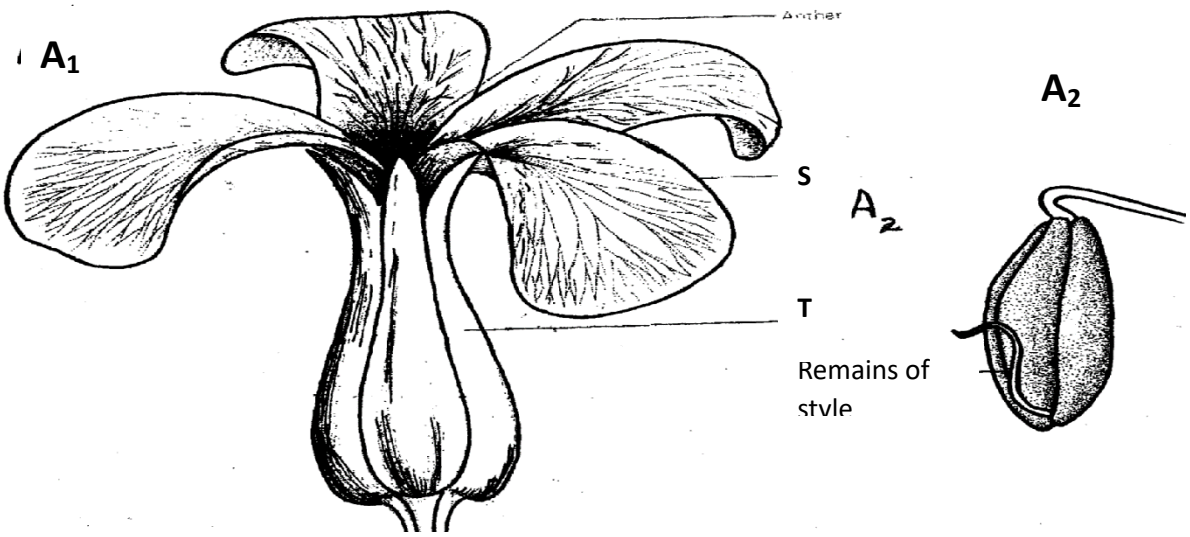
c). On the photograph **T** name the parts labeled **2** and **3.** (2 marks)

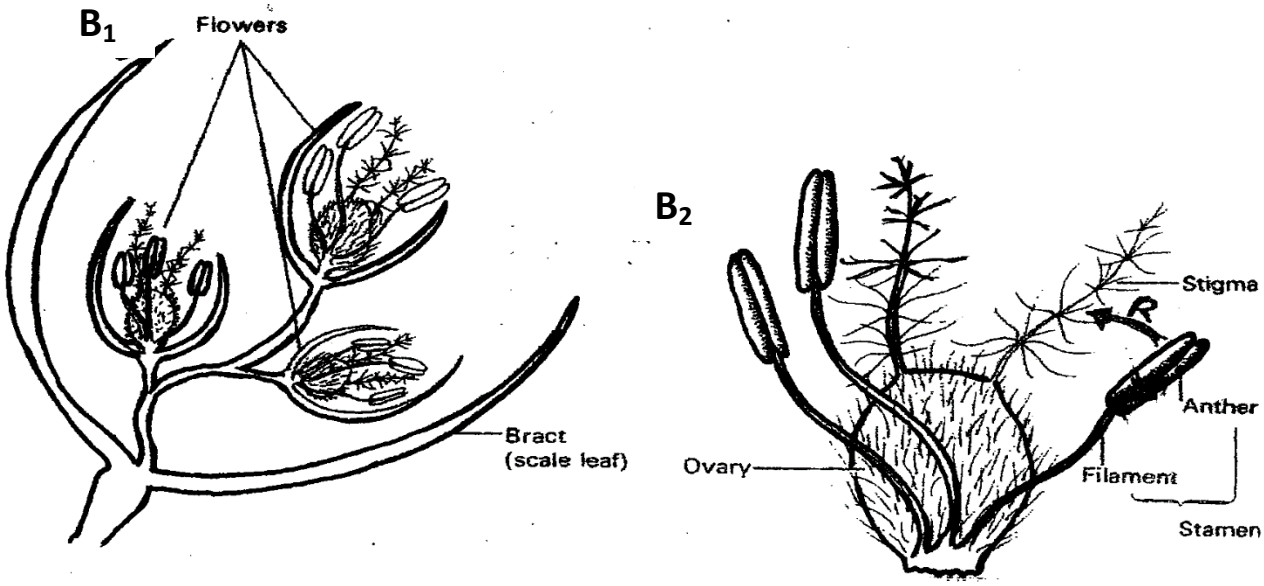
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3. Study the photographs below and use them to answer the questions that follow;





a) Using the number of flowers arising from the shoot of each plant, state the flowers labelled $\mathbf{A_1}$ and $\mathbf{B_1}$ (2 marks)

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.....

b) Name the class of the plant from which each of the flowers was obtained. Give a reason for your answer in each case (2 marks)

Flower	**Class**	**Reason**
A1		
B1		

c) Name the parts labelled **S** and **T** (2 marks)

S……

T ……

d) What type of ovary is shown in flower $\mathbf{B_1}$? Give a reason for your answer.(2 marks)

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……..……..

e) i) Name the agent responsible for the process represented by the arrow labelled **R** in $\mathbf{B_2}$ (1 mark)

……

……..

ii) Give a reason for your answer in **e (i)** above (1 mark)

……

……

iii) List **two** other features (not shown in the photograph) expected of such flowers as $\mathbf{B_1}$ (2 marks)

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f) (i) Name an agent that brings about a similar process as the one shown by the arrow in $\mathbf{B_2}$ fo**r** $\mathbf{A_1}$ (1 mark)

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ii) Give a reason for your answer in **f(i)** above (1 mark)

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g) What is the likely agent of dispersal of the specimen labelled $\mathbf{B_2}$? (1 mark)

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