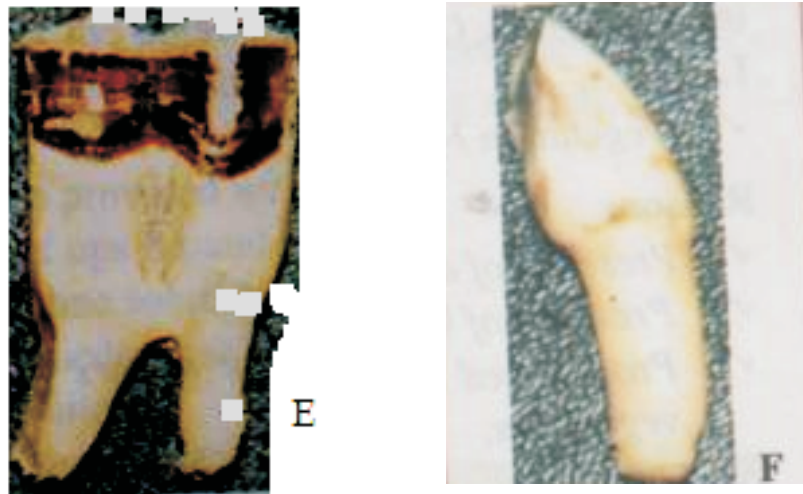


2) Below are photographs and specimens labeled **E** and **F** which were obtained from the same animal? Examine them.



(a) With reasons identify E and F. (4 marks)

**E:**.....

Reason  
.....

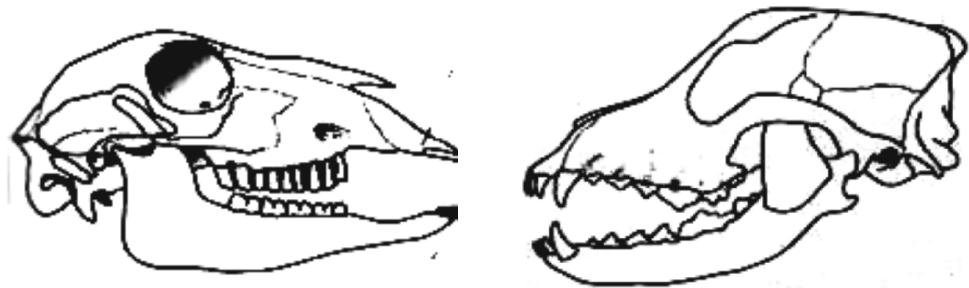
**F:**.....

Reason  
.....

(b) On a photograph E label four parts on the specimen. (4 marks)

.....  
.....  
.....

(c) Examine the following diagrams labeled L and M.



Suggest the diet of each of the animals whose skulls are shown in the diagram. (4 marks)

**L**.....

Reasons.....

**M**.....

Reasons.....

NAME:..... INDEX NO: .....

SCHOOL: ..... CANDIDATE’S SIGN.....

DATE: .....

231/3  
BIOLOGY  
PAPER 3  
(Practical)  
July/August 2014  
1 <sup>3</sup>/<sub>4</sub> Hours

**NAROK SOUTH SECONDARY SCHOOLS JOINT EXAMINATION**  
**Kenya Certificate of Secondary Education (K.C.S.E)**  
**BIOLOGY**  
**PAPER 3**

**INSTRUCTIONS TO THE CANDIDATES**

- i) Write your **Name** and **Index number** in the spaces provided above
- ii) **Sign** and write the **Date** of Examination in the spaces provided
- iii) Answer all questions in the spaces provided in the question paper
- iv) You are required to spend the first 15 minutes of the 1 <sup>3</sup>/<sub>4</sub> hours allowed for this paper reading the whole paper carefully before commencing your work.
- v) Additional pages must not be inserted

**FOR EXAMINERS USE ONLY**

Question	Maximum Score	Candidates Score
1	16	
2	12	
3	12	
<b>TOTAL</b>	<b>40</b>	

This paper consists of 4 printed pages  
Candidates should check the question paper to ensure that all the pages are printed as indicated and no questions are missing.

1. You are provided with a photograph of specimen X, using a cork borer; nine strips of 2cm length were made. Three strips were placed into a solution labeled Z, three other strips were placed in solution Y and the last three strips were left in a petri dish labeled W. The experiment set ups were allowed to stand for 20 minutes.



i. What observations would be made after 20 minutes when the strips are touched?

Strips in solution <b>Y</b>	
Strips in solution <b>Z</b>	

i. Account for the observation recorded in (C)i above. (4 marks)

.....

.....

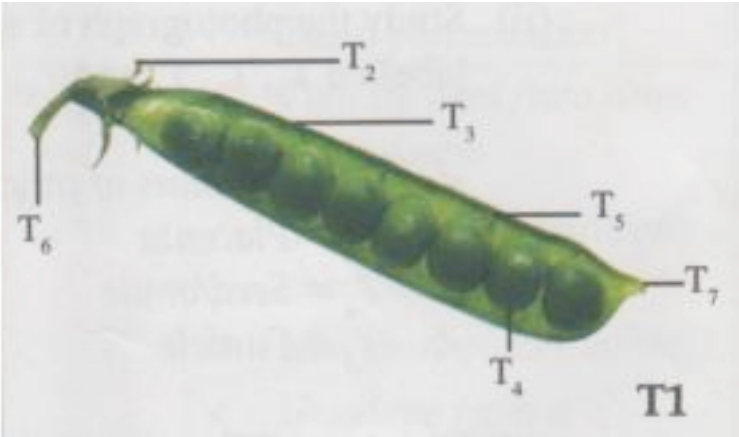
.....

i. State the role of the setup **W** (1 mark)

.....

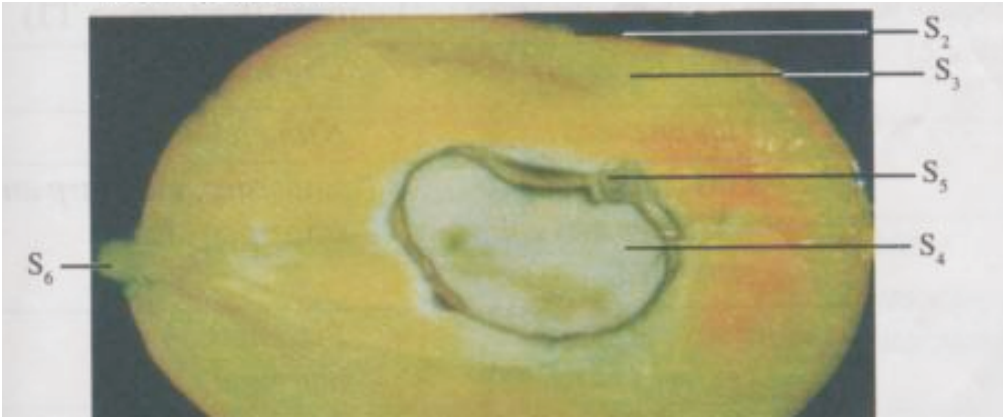
b You are provided with.

- Specimen **S<sub>1</sub>**
- Specimen **T<sub>1</sub>**



ii) Specimen S1 was cut longitudinally .The photograph below shows one half.

Name the parts labeled **S<sub>2</sub>, S3, S4, S5** and **S<sub>6</sub>** (5 marks)



(iii) Study the photograph of specimen **T<sub>1</sub>** and name the parts labeled **T<sub>2</sub>T<sub>3</sub>T<sub>4</sub>** and **T<sub>5</sub>** (4 marks)

(iv). List three differences between specimen **S<sub>1</sub>** and **T<sub>1</sub>** (3 marks)

2) You are provided with a solution **K**. Using the reagents provided only, test for the food substances present in the solution **K**. In the table below; (12 marks)

Food test	Procedure	Observation	Conclusion