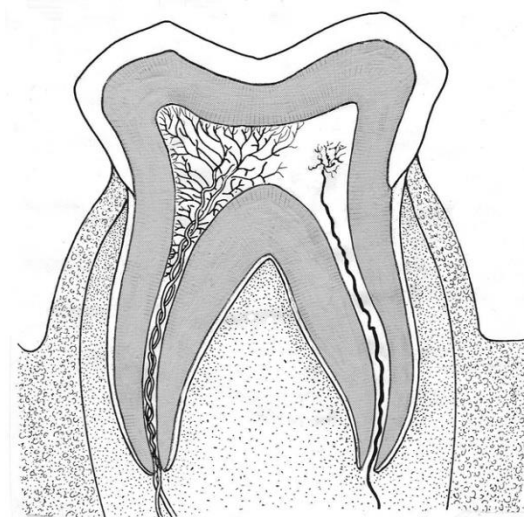


**MINISTRY OF EDUCATION
SECONDARY ENGAGEMENT PROGRAMME
INTEGRATED SCIENCE
GRADE 9**

WEEK 10
Answer All Questions

REVIEW

The diagram below shows the vertical section of a tooth.



1. (a) Name the parts labeled A, B, C. **3 marks**

A _____ B _____ C _____

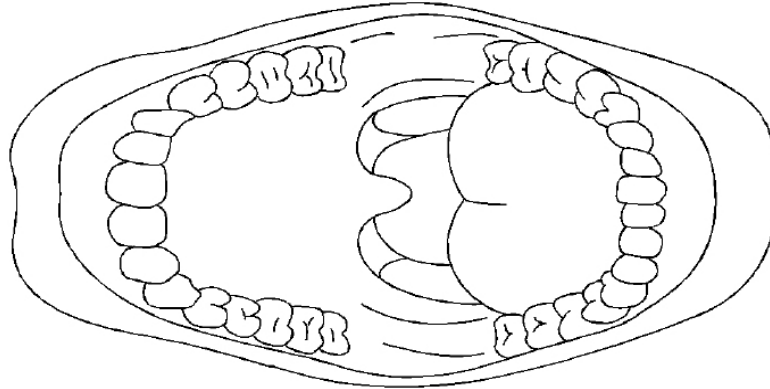
(b) (i) What is the function of the part labeled C?

2 mark

(ii) How is the structure of this tooth suited for its function?

2 marks

(iii) Study the diagram below and then write the dental formula of the organism.



(c) (i) Define the term balanced diet. **1 mark**

(ii) Identify the nutrients in a ham and cheese sandwich. **3marks**

(iii) Name the enzymes that will help to breakdown the food nutrients stated in (ii) above and state where the enzyme can be found. **3 marks**

(d) A group of students in Form 3C was given the chemicals listed in the table below, to carry out food tests. **Complete the table by putting in the food nutrient and the possible observation.** **4 marks**

Chemicals for Testing	Food Nutrient Tested for	Observation(s)
Iodine Solution		
Sodium hydroxide and Copper sulphate solution		

2. The table below shows the foods consumed and their consumers in a terrestrial environment.

Food Consumed	Consumers
Grass	Cows, Grasshopper
Lettuce	Slugs, Caterpillars
Cabbage	Humans, Slugs
Cows	Humans
Grasshopper	Frogs
Slugs, Caterpillars, frogs	Small birds
Small birds	Large birds
Large birds	Human

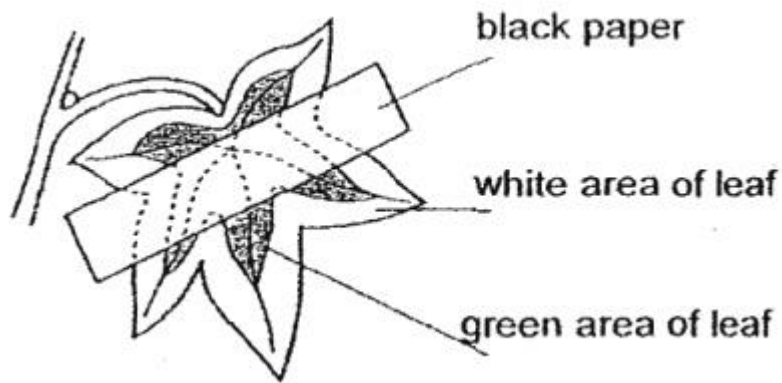
- (a) (i) Use the information in the table to construct a food web in the space below.

- (ii) From the food web drawn, write two food chains.

- (iii) Suggest what would happen to the food web if all the small birds were killed.

- (b) Students in a class are asked to carry out the following experiment to investigate photosynthesis:

- Attach a strip of foil to the upper and lower surfaces of a leaf of a potted plant, as shown in the diagram below.
- Put the plant in a sunny place.
- After a few days detach the leaf and test it for starch.



- (i) List the steps involved in testing the leaf for the presence of starch.

- (ii) What do you expect to see (observe)

a. on the white areas of the leaf

b. on the green areas of the leaf

- (iii) Explain the observation made at **a and b above**.
