



1. You have been provided with paste  $S_1$ . The paste was obtained by grinding solid food sample in a mortar and mixing the product with a little amount of water.

Design and carry out experiments to find out the different food substances present in  $S_1$ .

- (a) Record your experimental work as shown in Table 1 below:

Table 1.

Test	Procedure	Observations	Inference

- (b) Name the nutritional problems a child is likely to suffer if fed with a diet deficient/lacking the food substances you have identified. Give reasons.
- (c) Give two natural sources of each of the food substances you have identified in  $S_1$ .
2. Open your mouth widely. Using the mirror provided, observe all the structures you can see on the mirror/from your image.
- (a) Name the different sensory organs visible.
- (b) What are the functions of each sense organ observed?
- (c) Draw and label the sense organ you saw in the mouth. In your diagram show the location of the sensory structures associated with the various named stimuli.
- (d) Name the fluid secreted in the mouth in response to presence of food in the mouth.
- (e) State two functions of the liquid named in (d) above in digestion.
3. You have been provided with specimens A, B, C and D. Study them carefully and answer the following questions:
- (a) (i) Identify specimens A and B using their common names.
- (ii) Name the habitats of specimens A and B.
- (iii) Briefly explain how the different structures observed on A and B adapt the plants to their habitats.
- (iv) What term is used to describe these plants in relation to water economy?
- (b) (i) Identify specimens C and D.
- (ii) To which kingdoms do specimens C and D belong?
- (iii) In which way(s) is specimen C similar and yet different from specimen D?