**KAHUHO UHURU HIGH SCHOOL**

**BIOLOGICAL SCIENCES DEPARTMENT**

**BIOLOGY FORM TWO**

**MID TERM EXAMINATION**

**TERM 1 2012**

**TIME: 1 HOUR**

**INSTRUCTIONS**

1. Answer ALL questions in this paper

2. Answer in the spaces provided

3. All explanations must be shown clearly

1. The diagram below represents a section through a human tooth.

(a)Giving a reason, identify the type of tooth (2marks)

(b)Name the parts labeled L and Q (2marks)

(c)State the functions of the parts labeled P and M (2marks)

(d)State how the part labeled T is adapted to its functions. (2marks)

2. Explain the following,

(a) There is no digestion of starch in the stomach despite the fact that ptyalin is swallowed with food.

 (2marks)

(b) Protein digesting enzymes are produced in precursor forms. (2marks)

3. State two nutrients that do not digestion before they are absorbed (2marks)

4. State the function of the following parts of the microscope (2marks)

(a) Diaphragm

(b)Objective lens

5. Name two dental diseases (2marks)

6. Give three reasons for classifying organisms (2marks)

7. State one use of each of the following apparatus in the study of living organisms (2marks)

(a)Pooter

(b) Pitfall trap

8. The diagram below represents part of human digestive system

(a)Name the organs labeled L and M (2marks)

b) (i)Name the substance produced by the organ labeled K (1 Mark)

(ii) State the function of the substance named above (1 Mark)

c) State two functions of saliva (2 Marks)

9. An experiment was set up in a lab as shown below

1. What would happen to the visking tubing M and N after two hours (2 Marks)
2. Explain the observation made in M and N (4 Marks)
3. Explain the difference between wall pressure and turgor pressure (2 Marks)

10 a) State two products of light independent stage of photosynthesis (2 Marks)

b) Explain how chloroplasts are adapted to the photosynthetic functions (3 Marks)

c) State two examples of fat soluble vitamins (2 Marks)

11. a) Explain how the following factors determine energy requirements in human beings

i) Body size (1 Mark)

ii) Sex (1 Mark)

b) State four adaptations of the ileum to the process of absorption (4 Marks)