**ELERAI MCK GIRLS SECONDARY SCHOOL**

**EXAM I TERM I 2015**

**biology FORM 2**

1. State the function of each of the following cell organelles

a) Lysosomes (1mk)

b) Golgi apparatus (2mks)

2. What is the role of the following structures in a mammalian tooth

a) The pulp cavity (2mks)

b) Enamel (1mk)

3. Give two ways of keeping teeth healthy (2mks)

4. The diagram below represents a plant cell

1. Name parts (2mks)

X………………………………………..

Y ………………………………………..

1. Suggest why the structures labeled x would be more on one side of the cell (1mk)

5. The diagram below shows a mammalian jaw

1. Name the mode of feeding of the mammal (1mk)
2. State the adaptations of the mammal to its mode of feeding (2mks)

6.a) define nutrition (2mks)

b) Study the diagram of the gullet shown below

1. Name the process represented by the diagram (1mk)
2. Name part y (1mk)

7.a) what is osmosis (1mk)

b) Explain what happens when a red blood cell is placed in distilled water (3mks)

8.a) what is an enzyme (1mk)

b) What is the effect of temperature on enzyme controlled reactions (2mks)

9. Name the end products of digestion of the following (3mks)

a) Protein

b)Fat

c) Starch

10. a)Name the part of the chloroplast where the light reaction of photosynthesis occurs (1mk)

b) Name two products of the light stage (2mks)

c) What is the importance of photosynthesis to plants (1mk)

11. The leaf below was picked from a plant that had been exposed to sunlight to 5hours and tested for starch

1. State the observation made (1mk)
2. Account for the results obtained above (3mks)

12.a)Name the cell organelle that control movement of substances in and out of the cell (1mk)

b) What happens to the organelle if it is subjected to high temperature (2mks)

13.state two functions of large intestines (2mks)

14. State three roles of active transport in man (3mks)

15. Study the diagram below

1. From what plant organ was this diagram obtained (1mk)
2. Name the class of the plant from which it was obtained (1mk)
3. Give a reason for your answer in (b) above (1mk)
4. Name part x

16. Give two reasons why transport is important to living organism (2mks)