**ELERAI MCK GIRLS SECONDARY SCHOOL**

**P O BOX 435**

**SULTAN-HAMUD**

**Motto: “Discipline and hard work for excellent”**

**BIOLOGY FORM 2**

**OPENING CAT I TERM II 2013**

1. Distinguish between
2. Haemolysis and Plasmolysis (2mks)
3. Diffusion and Osmosis (2mks)
4. State the name given to the study of (2mks)
5. The cell
6. Micro-organisms
7. Name the kingdom in which the following organisms belong (2mks)
8. Protozoa
9. Fungi
10. An experiment was carried out to investigate the rate of reaction shown below

**Sucrose fructose + glucose**

For the products fructose and glucose to be formed, it was found that substance K was to be added, and the temperature maintained at 370C. When another substance L was added the reaction slowed down and eventually stopped.

1. Suggest the identity of substances K and L (2mks

L……………………………………..

K……………………………………………………….

1. Other than temperature state three ways by which the rate of reaction could be increased. (3mks)
2. Explain how substance L slow down the reaction (2mks)
3. a) In an investigation the pancreatic duct of an animal was blocked. It was found that the blood sugar regulation remained normal while food digestion was impaired. Explain. (3mks)
4. State two function of bile juice in digestion of food (2mks)
5. a)State the role of light in the process of photosynthesis (2mks)

b) Name one product of dark reaction in photosynthesis (1mk)

1. Arrange the following in order of their complexity

Cell, Organ, Tissue, Organelles, organisms, Organ system.

1. State two differences between the cell wall and cell membrane (2mks)
2. Differentiate between open circulatory system and of closed circulatory system (2mks)
3. Discuss the factors that affect the rate of transpiration.