NAME.................................................................................................... ADM NO..............................

KAHUHO UHURU HIGH SCHOOL

SCIENCE DEPARTMENT

MIDTERM EXAMS

TERM TWO 2012

FORM TWO: BIOLOGY

TIME: 1 HOUR

**INSTRUCTIONS:**

* *Answer* ***ALL*** *questions in this paper in the spaces provided*
1. State three factors that determine energy requirements in human beings (3mks)
2. Explain why enzymes trypsin and pepsin are produced in precursor forms (2mks)
3. Give a reason why the digestion of starch started in the mouth with the help of salivary amylase is not continued in the stomach (2mks)
4. State two examples of fat soluble vitamins (2mks)
5. State the final products of digestion for:
6. Carbohydrates
7. Proteins
8. Lipids

 (4mks)

1. State three structural differences between arteries and veins (3mks)
2. Distinguish between :
3. Open and closed circulation (2mks)
4. Single and double circulation (2mks)
5. State four adaptations of red blood cells to their functions (4mks)
6. Explain how the following plant adaptations minimise rate of transpiration
7. Sunken stomata
8. Leaf folding (4mks)
9. Why are the xylem vessels more efficient in transportation of water than tracheids (2mks)
10. State two components of the phloem (2mks)
11. State three properties of proteins (3mks)
12. Distinguish between osmosis and diffusion (2mks)
13. How would you make a flaccid cell turgid (3mks)

1. Describe the blood circulation in the mammalian heart (10mks)