**NAME: ------------------------------------------------ ADM.No:-------------- CLASS: -------------**

**KAHUHO UHURU HIGH SCHOOL**

**FORM 2: BIOLOGY**

**TUNE-UP EXAM**

**TERM 2 2014**

**TIME: 1 HOUR**

**INSTRUCTIONS**

**Answer ALL questions in the spaces provided**

1. What is meant by the term wilting? (2mks)
2. Explain how an increase in temperature affects the rate of active transport (2mks)
3. Name the taxonomic unit that comes immediately after a phylum in classification (1mk)
4. State two roles of mucus in the stomach. (2mks)
5. Explain how age determines a person’s energy requirement. (2mks)
6. State two characteristics of living organisms that are specific to plants (2mks)
7. Explain the importance of the following in photosynthesis (3mks)
8. Light
9. Carbon (IV) oxide
10. Chlorophyll
11. Name one appropriate food substance for each of the following enzymes:
12. Ptyalin
13. Pepsin (2mks)
14. State the cause and two symptoms of beriberi (3mks)
15. Explain what happens to a plant cell when it is placed in a hypotonic solution (3mks)
16. State two ways in which xylem vessels are adapted to their functions (2mks)
17. State three properties of the cell membrane (3mks)
18. Define the term cell specialization (2mks)
19. State the functions of the following cell organelles:
20. Golgi bodies (3mks)
21. Ribosome (1mk)
22. State four factors that affect photosynthesis (4mks)
23. Outline what happens in the light stage of photosynthesis (3mks)
24. Liver damage leads to impaired digestion of fats. Explain this statement. (2mks)
25. Explain how sunken stoma lowers the rate of transpiration. (2mks)
26. State the components of the succus entericus (4mks)
27. State three factors that affect enzyme controlled reactions (2mks)