**GATITU MIXED SECONDARY SCHOOL**

**BIOLOGY FORM 2 OPENER TERM 2 2015 EXAM**

1. The scientific name for the black jack is Bidens pilosa.which taxonomic group does the name pilosa refers to? 1mk
2. Explain why only the fine adjustment knob should be used when focusing a specimen using the high power objective lens of the light microscope. 2mks
3. A drawing of 5 cm in length, was made of a beetle whose actual length was 1 cm. calculate the magnification of the drawing. 2mks
4. Name the organelles that would be found in large numbers in cells of a:
5. Rapidly respiring tissues
6. Secretory gland in each case, give a reason 4mks
7. What type of membrane is the visking tubing? 1mk
8. How does temperature affect the rate of diffusion? 2mks
9. Name the carbohydrate that is:
10. Stored in plant seeds. 1mk
11. Stored in mammalian muscles. 1mk
12. Most abundant in human blood. 1mk
13. Highlight four functions of lipids. 4mks
14. Define an enzyme inhibitor. 1mk
15. Name the elements that form :
16. Carbohydrate. 1mk
17. Proteins 1mk
18. Explain the following:
19. When transplanting a seedling, it is advisable to remove some of the leaves. 2mks
20. There are generally fewer stomata on the upper side of a leaf than the lower side.2mks
21. Explain how the following plant adaptations minimize rate of transpiration.
22. Leaf folding. 2mks
23. Sunken stomata 2mks