**GATITU MIXED SECONDARY SCHOOL**

**BIOLOGY FORM 3 END OF TERM 2015 EXAM**

1. How does nutrition as a characteristic of living organisms differ in plants and animals? 3mks
2. State the functions of the following cell organelles
3. Golgi apparatus 1 mk
4. Ribosomes 1mk
5. Give reasons for carrying out the following procedures when preparing temporary wet mounts of plant tissues.
6. Making thin plant sections 1mk
7. Adding water on the plant section 1mk
8. Placing a cover slip over the plant section. 1mk
9. Name the part of a light microscope used to bring an image of a specimen into sharp focus. 1mk
10. Why is it recommended to keep the stage of the microscope dry? 1mk
11. What is diffusion? 2mks
12. How do the following factors affect the rate of diffusion?
13. Diffusion gradient 1mk
14. Surface area volume ratio 1mk
15. Temperature 1mk
16. Outline three roles of active transport in the human body. 3mks
17. What is meant by term wilting? 1mk
18. Explain how an increase in temperature affects the rate of active transport. 2mks
19. Name the :
20. Material that strengthens xylem tissue. 1mk
21. Tissue that is removed when the bark of a dicotyledonous plant is ringed. 1mk
22. State the advantage of possessing blood group AB. 1mk
23. Why are gills in fish highly vascularized? 1mk
24. Name the fluid that is produced by sebaceous glands . 1mk
25. State one change that occur in arterioles in the human skin during thermoregulation. 1mk
26. State the role of insulin in human body. 1mk
27. Explain why plants do not require specialized excretory organs. 4mks