**GATITU MIXED SECONDARY SCHOOL**

**BIOLOGY FORM 2**

**MIDTERM EXAM TERM 1 2015**

1. Explain the following terms:
2. Botany 2mks
3. Genetics 2mks
4. Give a brief explanation of any three characteristics of living things. 6mks
5. State any external features in plants. 2mks
6. Define the term species. 2mks
7. Highlight the functions of the following parts of a microscope
8. Fine adjustment knob 2mks
9. Diaphragm 2mks
10. Give the functions of the following cell organelles
11. Ribosomes 2mks
12. Chloroplasts 2mks
13. Define the following giving a relevant examples for each
14. Tissue 2mks
15. Organ 2mks
16. Explain briefy the role of diffusion in living organisms. 4mks
17. Define osmoregulation. 2mks
18. Explain the differences between
19. Turgor pressure and wall pressure 2mks
20. Osmotic pressure and osmotic potential 2mks
21. Define the term photosynthesis. 2mks
22. Discuss the role of each of the following structures of the leaf during photosynthesis:
23. Xylem vessels 2mks
24. Chlorophyll 2mks
25. Guard cells 2mks
26. State the parts where the following reaction s occur during photosynthesis:
27. Light reaction 1mk
28. Dark reaction 1mk
29. Explain the following terms
30. Peristalsis 2mks
31. Emulsification 2mks
32. Assimilation 2mks
33. Explain two primary functions of the roots. 4mks
34. Draw a well labeled diagram showing the structure of a root hair cell. 4mks
35. Define the term lignifications. 2mks
36. State the three tissues within the cortex of a young dicotyledonous stem. 3mks
37. Define the term transpiration. 2mks
38. Highlight any three environmental factors affecting transpiration. 3mks