**GATITU MIXED SECONDARY SCHOOL**

**PHYSICS FORM 2 END OF TERM 3 2015 EXAM**

1. Define the term magnetic field. 1mk
2. State three properties of lines of force. 3mks
3. State and explain two factors that affect the stability of an object. 2mks
4. Write the following measurements in standard forms
5. 0.002 kg 1mk
6. 300,000,000 ms-1 1mk
7. 6370 000m 1mk
8. State the principle of moments. 1mk
9. State two factors that affect the magnitude of moment of a force. 2mks
10. Give the difference between a virtual and real image. 2mks
11. State four factors that determine the spring constant of a spring. 4mks
12. State four properties of the liquid in the liquid in glass thermometer. 4mks
13. Define the following terms:
14. Radiation 2mks
15. Convection 2mks
16. Conduction 2mks
17. Give four uses of n electroscope. 4mks
18. Differentiate between soft and hard magnetic materials 2mks
19. Why does oil spread on water? 2mks
20. What is the purpose of the white powder in the experiment? 2mks
21. John weighs 600N and sits 2.5 m from the pivot of a see saw. How far from the pivot should his friend Ann sit for them to balance if she has a mass of 75kg? 3mks
22. An object 2cm tall is placed 40cm in front of a concave mirror. The image produced is inverted and has a magnification of 1.5 by calculation; determine ;
23. The position of the image 2mks
24. The height of the image formed. 2mks
25. A spring extends by 3 cm when a weight of 20 N is hung from one end. By how much will the spring extend if a force of 50N is hung from it? What assumption have you made? 3mks
26. Explain mechanical waves and give two examples. 2mks