**GATITU MIXED SECONDARY SCHOOL**

**PHYSICS FORM ONE CAT 1 END TERM 3 2014**

**TIME: 1 HR**

1. List 3 branches of physics. 3mks
2. Convert the following
3. 1000000m into km 2mks
4. 0.0000037kg to mg 2mks
5. A block of glass of mass 187.5g is 5.0 cm long, 2.0 cm thick and 7.5cm high. Calculate the density of the glass in kg/m3. 3mks
6. The mass of an object is 50kg. if its weight is 1000N in a certain planet, calculate the gravitational field strength of the planet. 2mks
7. A spring stretches by 6cm when supporting a load of 15 N.
8. By how much would it stretch when supporting a load of 5kg? 2mks
9. What load would make the spring extend by 25mm. 2mks
10. How much force must be applied on a blade of length 4 cm and thickness 0.1mm to exert a pressure of 5000, 000pa? 3mks
11. State the kinetic theory of matter. 2mks
12. State 3 factors that affect thermal conductivity. 3mks
13. Distinguish between lunar and solar eclipse. 2mks
14. State the laws of reflection. 2mks
15. How does a person see an object? 2mks