**GATITU DAY MIXED SEC SCHOOL**

**PHYSICS FORM TWO CAT 2**

 **TERM 2 2012 MIDTERM EXAM**

1. Rewrite the following figures in (5mks)

 a) Standard form

 b) Two significant figures

 i) 0.00629

 ii) 370064

 iii) ¼

 iv)2

 v) 12.387

 2. State and explain two factors which affect the stability of an object (3mks)

 3. The figure below shows two bar magnets placed with north poles together (2mks)

 Show the magnetic field pattern between the two

4. A pinhole camera of length 15 cm forms an image 3 cm high of a man standing 9 m in front of the camera. What is the height of the man to the nearest cm? (4mks)

5. Two mirrors are inclined at angle such that six images are formed .what is the size of angle between the two mirrors (3mks)

 6. State Pascal’s principle of transmission of pressure in liquids (1mk)

 7. Draw a simple sketch of vernier calipers showing a reading of 7.23 cm (2mks)

 8. Explain two factors that affect the surface tension of water (2mks)

 9.

 The mass of the solid cylinder shown in the diagram above is 300g . Determine the density of the material (3mks)

 10. Give two reasons why water is not a suitable thermometric liquid. (2mks)

 11. State the four factors affecting the strength of an electromagnet (4mks)