GATITU DAY MIXED SEC SCHOOL

PHYSICS FORM 1 CAT 2

TERM TWO MIDTERM EXAM 2012

1. Convert the following (3mks)

a) 1000kg to g

b) 1,000,000 m to km

c) 0.0000047 kg to mg

2.Find the volume of a cylindrical tin of radius 7 cm and height 3 cm (2mks)

3. The mass of 25 cm3 of ivory was found to be 0.045 kg calculate the density iin kg/m3 (3mks)

4. State 4 effects of forces (4mks)

5. Define the following (4mks)

a) cohesive and adhesive forces

b) centripetal force

c) surface tension

6. Briefly give and explain the factors affecting surface tension (3mks)

7. Give the differences between mass and weight (4mks)

8. State the pascal’s principle (2mks)

9. State two factors that affect pressure in liquids (2mks)

10. Calculate the weight of the following (3mks)

1.5 grams

8tonnes

5kg

11. Define the following and give an example in each case (4mks)

a) scalar quantity

b) vector quantity

12. Define pressure and state its SI unit (2mks)

13. A stone pillar has a mass of 300kg if the area of its base is 0.3m2 ,calculate pressure under the pillar (3mks)

14. Define resultant force (1mk)