**ELERAI M.C.K GIRLS SECONDARY SCHOOL**

**PO BOX 435**

**SULTAN HAMUD**

***Motto “discipline and hard work for excellence”***

***PHYSICS FORM 1***

***OPENING CAT I TERM II 2013***

***ANSWER ALL THE QUESTIONS.***

1. Define the term physics. (1mk)
2. State three branches of physics. (3mks)
3. Other than dressing properly and wearing closed shoes, state other two basic laboratory rules. (2mks)
4. Distinguish between **basic physical quantities** and **derived quantities**. Give two examples in each case. (6mks)
5. Ng’otiek found that the width of her desk was approximately 10 palm- length of her palm was 15cm long, what was the width of her desk in centimeters (3mks)
6. How many millimeters are there in. (10mks)
7. 1 cm
8. 4 cm
9. 0.2 cm
10. 7.6 cm
11. 1 m
12. Write these length in metres (10mks)
13. 300cm
14. 650cm
15. 780cm
16. 34cm
17. 100mm
18. The pages of a book are numbered 1 – 251 and each paper is 0.1 mm thick. If each cover is 0.2 mm thick, what is the thickness of the books? (2mks)
19. A metal block measures 10cm × 4cm × 4cm. what is the volume. How many blocks each 2cm by 2cm by 2cm are there in it (3mks)
20. A perplex box has a 6cm square base and contain water to height of 7cm
21. What is volume of the water. (2mks)
22. A stone is lowered into the water so as to completely covered and the water uses to a height is 9cm. what is the volume of the stone. (2mks)
23. A piece of steel has a volume of 48cm3 and a mass of 96g. what is the density in (4mks)
24. g/cm3
25. kg/m3
26. Convert the following volumes to m3 (2mks)
27. 15000000cm
28. 20L

end