**NAME:…………………………………………………………………………….ADM:………..CLASS:……..**

**FORM ONE PHYSICS**

**END TERM 1**

**TIME: 1 ½ HOURS**

**Answer all the questions in the spaces provided.**

1. State three topics you studied in primary Science which is related to Physics. (3mks)
2. State two four career opportunities which require you to study physics. (4mks)
3. Give reasons of studying physics in School. (3mks)
4. Give three problems which can be associated with use of knowledge gained in physics. (3mks)
5. State how physics is applied in (2mks)
6. Geography
7. Home science
8. State the three basic quantities (3mks)
9. Express the following into cm2. (2mks)
10. 8.5m2
11. 0.0008cm2
12. The mass of 20cm3 of wood was found to be 0.04kg. calculate the density of wood.
13. In kg/m3 (2mks)
14. Ing/cm3 (2mks)
15. How would you find the area of irregularly snapped surface (2mks)
16. Name five laboratory apparatus that can be used to measure the volume of a liquid. (5mks)
17. (a) Define time and state its SI units. (2mks)

(b) Calculate the number of seconds in a day. (2mks)

1. Define force and give its SI units (2mks)
2. State three types of forces. (3mks)
3. Explain why water wets a paper but mercury does not. (2mks)
4. State two factors which affects surface tension of a liquid. (2mks)
5. State the difference between mass and weight (4mks)
6. Define scalar and vector quantities and give example of each. (4mks)
7. Define the term pressure and give its SI unit. (2mks)
8. Explain how drinking straw works. (4mks)
9. State two applications at the principle of transmission of pressure. (2mks)
10. A density of a liquid is 1.5gcm3. Calculate the volume of 4kg of the liquid in cm3. (3mks)
11. A mixture consists of 40cm3 of water and 60cm3 of liquid X. If the densities of water and liquid x are 1.0g/cm3 and 0.8g/cm3 respectively, calculate the density of mixture. (3mks)
12. What is friction force? (1mk)

(b) Give two advantages of frictional force. (2mks)

1. Calculate the pressure due to water experienced by a fish 20m below the surface of the sea (Density of sea water. 1030kg/m3) (3mks)
2. The force of gravity on the moon is one sixth of that on the earth. Determine the weight of a 12kg mass on the moon. (2mks)
3. A box of mass 5kg has dimension’s 10mx5mx3m. determine the maximum pressure exerted by the box on a flat surface. (3mks)