

## MAKUENI BOYS

### F1 PHYSICS AUGUST ASSIGNMENT 2020

1. Define physics (1mk)
2. Discuss any 3 branches of physics (6mks)
3. Distinguish between a derived quantity and a basic quantity of measurement giving an example in each case (4mks)
4. Explain the relationship between physics and the following discipline(4mks)
  - i. History
  - ii. Mathematics
5. State any four basic quantities of measurement giving their S.I units (4mks)
6. a) what is a laboratory (2mks)
  - b) State any four basic laboratory rules (4mks)
  - c) State any three apparatus used to transfer exact volume of liquids in the laboratory (3mks)
7. a) what is length? State the SI units (2mks)
  - b) State three conditions to observe when using a metre rule (3mks)
- 8.) a) Define density and state its S.I unit (2mks)
  - b) Calculate the density of a spherical ball of radius 7cm and mass 600g. (4mks)
9. Define force and state its S.I unit (2mks)
  - b) State any 4 effects of force (4mks)
  - c). fill in the table below to show the forces responsible for the effects below (4mks)

<b>EFFECT</b>	<b>FORCE</b>
1. insects walking on water	
2. water rising up a capillary tube	
3. wear and tear	
4. tides in the ocean	

d) a) what is the displacement method of measurement ? (2mks)

b) Describe and 3 disadvantages of the above method of measurement (3mks)

10. a) What is area? State the S.I units (2mks)

b) Convert the following units of area as indicated (4mks)

a) 0.004ha into S.I units

b) 40000mm<sup>2</sup> into m<sup>2</sup>