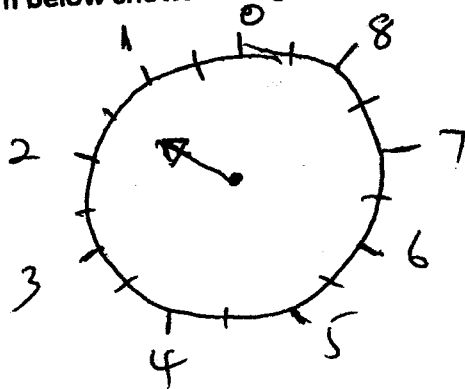


**GATITU SECONDARY SCHOOL, P.O. BOX 327 – 01030, GATUNDU,
FORM 1 PHYSICS TUNE – UP EXAMINATION. TERM 2 2015**

1. The diagram below shows a weighing balance used to measure mass.



Record the mass shown by the pointer.

(2mks)

2. A thin wire was wound 30 times closely over a boiling tube. The total length of the windings was found to be 9.3 cm. Calculate

i) the circumference of the boiling tube.

(2mks)

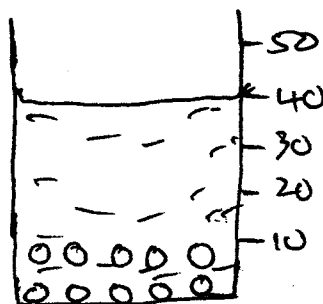
ii) Determine the radius of the boiling tube.

(2mks)

3. Give five basic physical ~~qualities~~: *quantities* (5mks)

4. State the SI Units of the qualities mentioned in (3) above. (3mks)

5. The figure below shows a cylinder with water and ten lead pellets each of volume 1.8 cm^3 .



i) Calculate the volume of the pellets.

(2mks)

ii) If the pellets are now removed show on the diagram the volume of liquid remaining in the cylinder.

(3mks)

6. The water level in a burette is 40.0cm^3 . 40 drops of water each of volume 0.2cm^3 are added to the water in the burette. What is the final reading on the burette? (3mks)

7. A boy 150cm tall forms a shadow of length 200cm. A tree nearby forms a ^{shadow} ~~show~~ of length 800cm. Calculate the length of the tree. (3mks)

