GATITU SECONDARY SCHOOL, P.O. BOX 327 – 01030, GATUNDU.

FORM 1 PHYSICS END OF TERM I EXAMINATION. 2014.

NAME:_____ADM._____CLASS:_____

INSTRUCTIONS

-Write your name, admission number and class in space provided above.

-Answer all the questions in the spaces provided.

-Clean organized work may earn you more marks while slovenly work is highly penalized.

1.   Name 5 branches of physics.   (5mks

i)

ii)

iii)

iv)

v)

2.   What do you understand by the term physics?   (2mks

3.How is physics related to   (4mks

b)Technology

4.   Write down Ten Courses offered at   (10mks

a)college level

i)

ii)

iii)

iv)

v)

vi)

vii)

viii)

ix)

x)

b)   University Level.   (10mks

i)

ii)

iii)

iv)

v)

vi)

vii)

viii)

ix)

x)

5.   State five laboratory rules.   (5mks

i)

ii)

iii)

iv)

v)

6.   A student accidentally touches a naked live wire, and gets an electric shock. Explain how you can assist the victim.   (2mks

7.   Distinguish between fundamental and derived quantities.   (4mks

Fundamental quantities

Derived quantities

8.   Complete the table below

QUANTITY	SI UNIT	SYMBOLS
Length	Metre	M
Mass	_____	_____
_____	Second	S
Electric Current	_____	_____
Amount of substance	_____	_____
Thermodynamic termperature	_____	K (4mks

9. Write down the reading indicated on the diagram below for the length of an object obtained by using a metre rule.

Reading =   (2mks

10. To estimate the height of a flag pole a rod of length 50cm was used. The data collected was recorded as below:

i)   Length of rod =   50cm
length of rod's shadow = 100cm
length of flag pole's shadow 80cm
Using this information to estimate the height of the pole.   (10mks

11. Express the following lengths in the units in the brackets.   (6mks

i) 2.7m (mm)

ii) 269cm (m)

iii) 350mm (mm)

12. Define the following terms and give SI Units   (6mks

a) Area

b) Volume

13. A cylinder has a diameter of 4.2cm. How many times would a thread of 132cm go round the cylinder.?   (4mks

14. Determine the area of the shape below.   (4mks

15. A spherical solid of radius 10cm is moulded into a uniform cylindrical wire of some radius. Calculate the length of the wire in millimeters.   (4mks

16. Mention 5 instruments which may be used to measure volume.   (5mks

17.   Define a) Mass   (4mks

b)   Density

18.   Displacement method is not suitable for the measurement of volume of a piece of
charcoal. State THREE PROPERTIES of a substance whose volume can be determined by the
displacement method.   (3MKS
I)
II)
III)

19.   Record the volume of the liquid in the figure below.

20. Sixty drops of water each of volume 0.1cm3 fell from a burette. Originally the level of water in the burette was marked 30cm^3. What is the new level? (3mks

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX.