

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

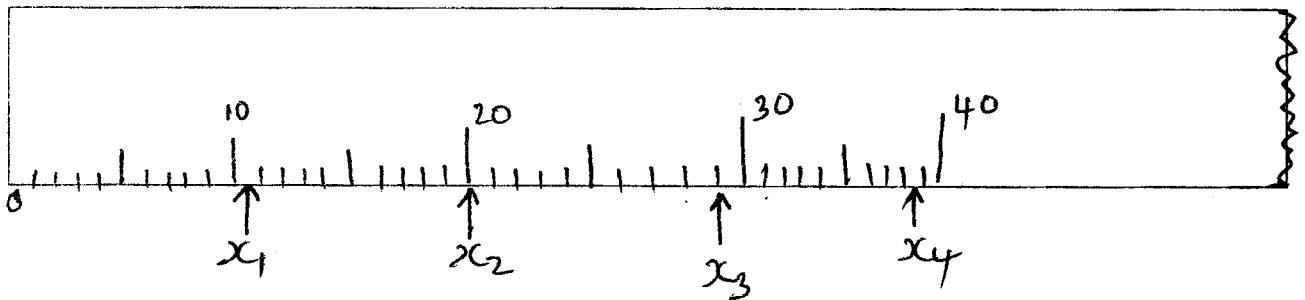
**FORM 1 PHYSICS. END OF TERM I EXAMINATION. 2016.**

NAME: \_\_\_\_\_ CLASS: \_\_\_\_\_ ADM: \_\_\_\_\_

**INSTRUCTIONS: (80MKS)**

- i) Write your name, class, adm. No. in the space provided.
- ii) Answer all the questions in the spaces provided below each question.
- iii) Mathematical table may be used where necessary.
- iv) Electronic calculators **MUST NOT** be used.

1. The sketch below shows a section of a metre rule used to measure the lengths of objects.



Give the lengths

(4mks)

X1 =

X2 =

X3 =

X4 =

2. Name the two categories into which the study of nature is divided. (2mks)

i)

ii)

3. Define physics (2mks)

4. Name the branches of physics (6mks)

i)

ii)

iii)

iv)

v)

vi)

5. How is physics related to technology. (2mks

6. Write down five important laboratory rules. (5mks

7. While in the laboratory a girl in form one accidentally touches a naked wire carrying an electric current and gets an electric shock. State two things you can do to your friend, who got the shock. (2mks

8. The table below shows some of the fundamental quantities, their units and / or symbol used. Fill the table appropriately.

QUANTITY	SI UNIT	SYMBOL
Length	metre	m
_____	kilogram	kg
_____	_____	s
Electric current	_____	_____
Thermodynamic temperature	_____	_____
_____	_____	cd
_____	mole	_____

(11 MKS)

9. With the aid of a diagram show how the diameter of a ball can be obtained. (3mks)

10. In an attempt to estimate the height of a tree purity recorded the following data.

- Length of the tree's shadow = 9m
- Height of rod used = 1.5m
- Length of rod's shadow = 200 mm

Calculate the height of the tree from the results above. (5mks)

11. Express the following measurements in millimetres.

a) 2.7m (6mks)

b) 269cm

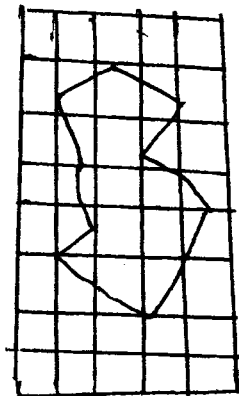
c) 3.56km

12. Define the following terms

i) Area (4mks)

ii) Volume

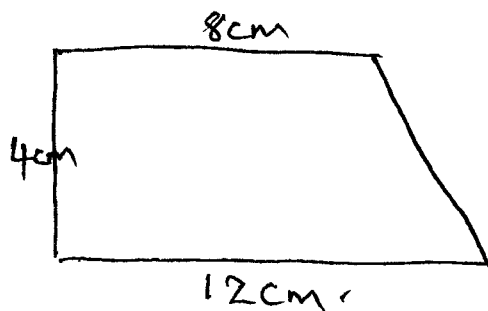
13. Estimate the area of the figure below. (3mks)



14. Calculate the area of

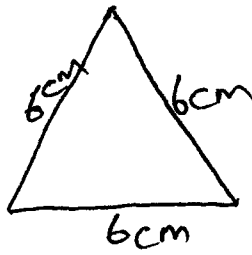
i)

(3mks)



ii)

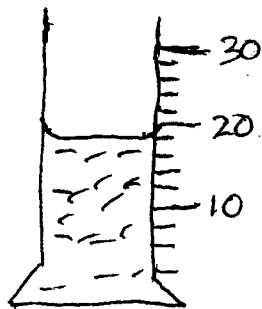
(2mks



15. Mention 5 instruments which can be used to measure the volume of a liquid.. (5mks

16. Write down the volume shown in the diagram below.

(2mks



17. Seventy drops of water each of volume  $0.1\text{cm}^3$  fell from a burette. If the burette originally had  $20\text{cm}^3$  of liquid. Calculate the final level of the liquid. (3mks