

JANAN SECONDARY SCHOOL- BOMBO
END OF TERM 1 EXAMINATION
SENIOR ONE
PHYSICS
DURATION 2HRS

Instructions: Attempt all questions

Clearly indicate your NAME and STREAM

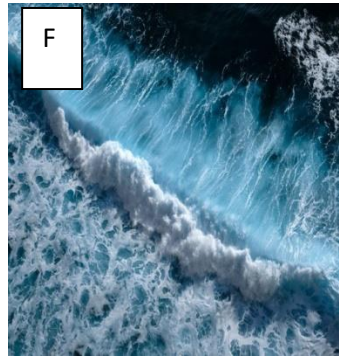
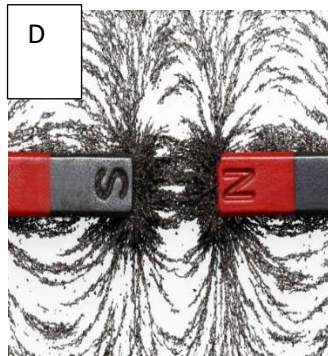
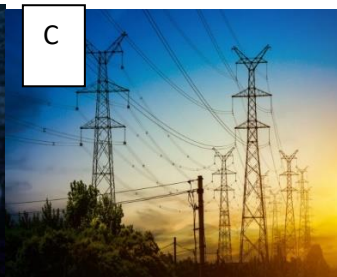
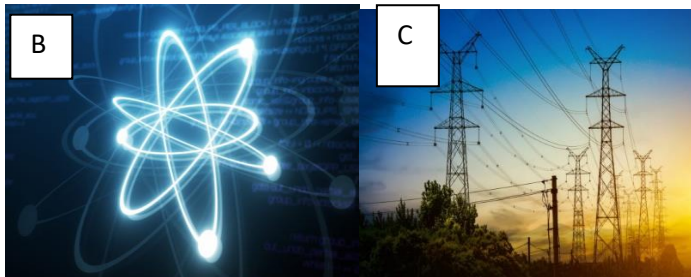
NAME: Stream:

SECTION A (35 Marks)

1 a) At primary level, you studied science as an independent subject. At Secondary however, science is divided into different independent subject like physics, Biology and chemistry. As a physics student, what do you understand by the term Physics?

.....
.....(1mk)

b) The figures below are representing the different branches of physics. As a physics student identify the different branches of physics. (6mks)



A.....
B.....
C.....
D.....
E.....
F.....

2. a) Physics is made up of different physical quantities in all the branches which are divided into two major branches. As a physics student, differentiate between fundamental and derived quantities.

.....

.....

.....(2mks)

b) The table below shows some of the many physical quantities with their SI units. Study it and fill in the missing gaps and as well answer the questions that follow.(5mrks)

No.	Physical quantity	SI Unit	Symbol
1	Mass		Kg
2		Seconds	
3	Length		

ii) What is the similarity between the 3 physical quantities named in the table above? (1mk)

.....

.....

iii) A book of 32 pages is bound with sheets of paper each of thickness 0.20mm and two covers each of the thickness 0.50mm. what is the thickness of the book in;

i. mm (3mks)

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.....

.....

.....

ii. m (2mks)

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.....

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3. During a class activity, students were tasked to find the length of the Class room. Osman used his foot span and found out that the classroom Length is 50-foot spans meanwhile John went to the laboratory and got a tape measure to which he used and obtained 12 metres.

i. Which physics term is used to describe 50-foot spans? (1mk)

.....

ii. Which physics term is used to describe 12 metres? (1mk)

iii. Who obtained the actual value of length? (1mk)

iv. Why do you think there is a difference between the two values obtained by Students? (2mks)

v. How can we improve the reliability of an estimate? (2mks)

vi. A rectangular block measures 5.42cm by 3.645cm by 1.63cm, calculate the volume of the block of wood in the standard units of volume. (put your answer to 3 significant figure.)

.....(3mks)

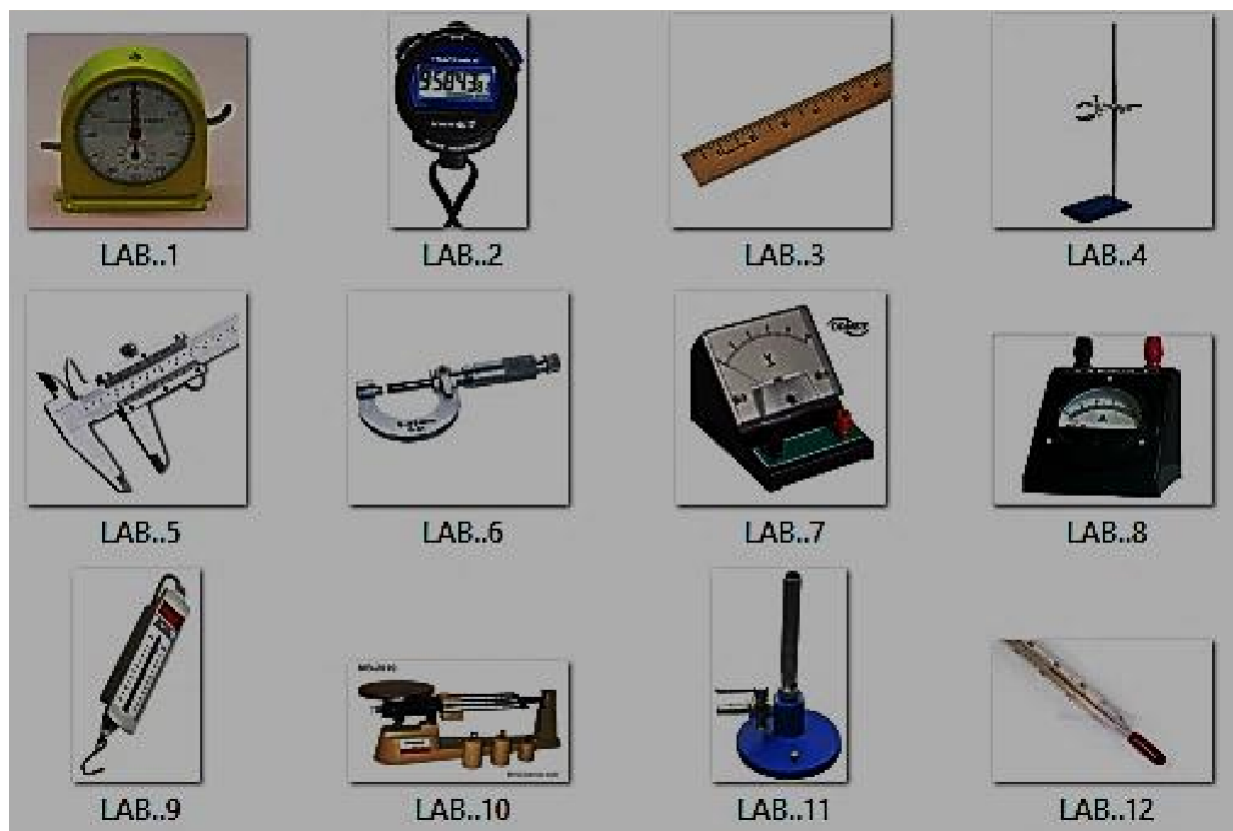
4. A gold-colored cube is handed to you. The person wants you to buy it for **\$100**, saying that is a gold nugget. You pull out your old geology text and look up gold in the mineral table, and read that its density is **19.3 g/cm³**. You measure the cube and find that it is **2 cm** on each side, and weighs 40 g. Is it pure gold? Should you buy it? Is it really a golden nugget? (5mks)

[illegible]

SECTION B
(20 marks)

5. During the visitation at your school parents and guardians flooded the school compound and as part of school way of promoting their school to the outside community you are one of the few students selected to conduct an exhibition around the school laboratory. Whereas in the laboratory many apparatus were organized to be displayed for the parents and guardians who were eagerly waiting to see how well their learners have attained knowledge and skills while at school.

SUPPORT MATERIALS / RESOURCES



TASK

- a) As a **Laboratory Tour guide** for the parents and guardians, Organize the speech you are going to present to them about the **Physics Laboratory** and don't forget to inform them of the rules and regulations they must abide by as they enter the laboratory for the tour.
- b) As the second part of your presentation, you are required to organize each apparatus labelled above write down its name and briefly explain its real-life application

***YOU ARE CAPABLE.
HAPPY HOLIDAYS***

