**BUNJAKKO ISLAND VOC. HIGH SCHOOL MPIGI**

**END OF TERM II ASSESSMENT 2024**

**Uganda Lower Secondary Curriculum Education**

**Senior One**

PHYSICS

**Paper 1**

Theory

**Time:**

**INSTRUCTIONS TO LEARNERS:**

* This paper consists of **two** examination **Items**.
* Answer **all** examination **Items**.
* Any additional item(**s**) answered will **not** be scored.
* All answers **must** be written in the booklets provided.

Item One

A group of students went for a burial of their lovely classmate who had lost her beloved father and eventually had to sleep for the night since they had travelled a long distance and it was too late for them to leave at the moment. Surprisingly the place was dark at night as their classmate told them that they use burning wood to provide light all the time which was scarely.

**Support material**

* A small nido tin
* Some paraffin
* a small blanket rug
* a razor blade

**Task**

As a physics learner,

1. Help the students overcome the darkness.
2. Help the students know how the above designed instrument works.
3. Know how to provide light for long time without being off.
4. Know the care and mentainance of the above instrument.
5. If the above instrument uses per hour. Determine the amount of paraffin needed to light for 6 hours in**.**

Item Two

The engineer of a certain construction site bought the following building materials such as 26 bags of cement, 20 pieces of iron sheet, 7 pieces of steel bars etc, the engineers claims that the above materials bought are of good quality and in that they will last for over 100 years if used in the construction. He added on that they were bought expensively and other workers at the site silently opposed his words as they silently said that the quality of materials don’t depend on its colors.

**Support material**

* 1 bag of cement(50 kg) costs
* **1** piece of iron sheet costs
* 1 piece of steel bar costs

**Task**

As a physics learner,

1. Help the site engineer and his fellow workers prove if the above building materials are of good quality.
2. Show whether was enough to purchase the above items.
3. Show whether a truck which can carry managed to carry the 26 bags of cement.
4. Advise the site engineer on how to construct a house foundation which is free from wet.

**END**