**BRAIN TRUST COLLEGE KAWUMBA.**

**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**.
* Each examination item has the **same** scores.
* Any additional item(**s**) answered will **not** be scored.
* All answers **must** be written in the booklets provided.

**Item One**

In a scientific experiment, senior four students were told to add 10g of pure water to an alkaline solution provided. In this case they had 3 samples of liquids which had the same color of water which confused them on which sample was pure water.

**Support material**

* Density of pure water is
* **1** empty beaker and weighs 30g
* 1 digital beam balance

**Task**

As a physics learner,

1. Help the senior four class determine of the 3 samples which liquid is pure water.
2. Help the senior four students know the volume of pure water to be used in case the digital beam balance failed to read due to old cells in it.

**Item Two**

A certain family stays near the marram road and a school. Every day, the family receives dust raised by moving vehicles from the road and the bad smell from the school pit latrines which are 15m away. In the morning hours, the dust is not so much and the smoke from the pit latrines is not so much either but these conditions worse around midday on hot sunny(hot) days. The family is disgusted by these conditions as they don’t know the cause of these conditions.

**Task**

As a physics learner,

1. Write a message to this family explaining the cause of the above conditions.
2. Evaluate the possible ways of solving the above problems in the scenario.

**END**