

NAME:.....SIGNATURE .....



**ST.ANDREW KAGGWA GOMBE HIGH SCHOOL-BUJUUKO**

**END OF YEAR CYCLE ASSESSMENT**

**PHYSICS**

**SENIOR TWO**

**Time: 1Hr:45minutes**

INSTRUCTIONS attempt 3 questions from this paper

QUESTION 1

In a certain village a man wants to sell his rusted iron sheets to the scrap shop but the shop keeper has a challenge of a weighing scale which got spoiled a week back though the weighing stones were present.

Support material



Task:

Using your knowledge of turning effects of forces, Advise this man on how to measure the customer's scrap without using a weighing scale(15 scores)

Yes you can!

## QUESTION 2

Your sister has just graduated as a senior doctor and now you are going to the village for graduation ceremony, you have hired a taxi to take all the people who are to attend the ceremony their luggage as well as all utilities that you are to use while in the village, the taxi driver has loaded the car and now seems to be full yet more luggage is still there to be loaded, the taxi driver has now to load most of the luggage at the rack ( on top of the car)

Support material,

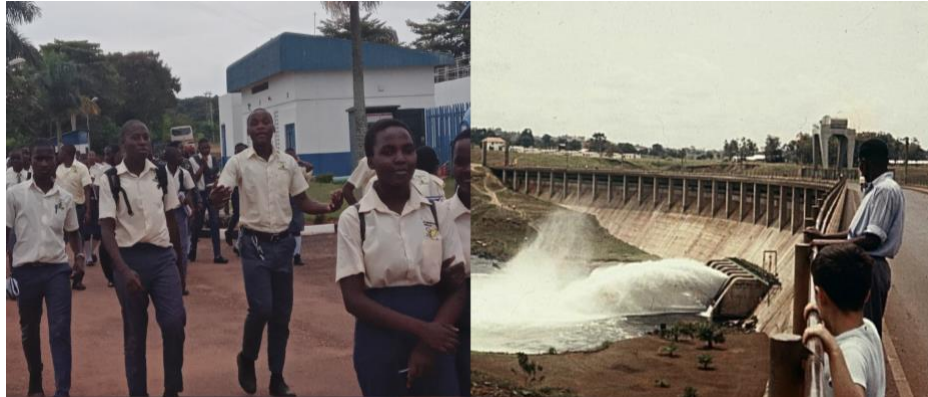


Advice the taxi driver on how this kind of loading of a car can be of great danger to all of you on your way to the village (15scores)

Yes you can!

### QUESTION 3

A group of students had a tour to one of the dams in Uganda in order to see how dams are constructed to last for centuries. On reaching at the dam, the tour guide took them through the procedures underwent to come up with the dam. In his statement he talked about the bottom of the



dam being wider than the top of the dam.

- Why do u think the bottom of the dam is wide than its top(3scores)
- Describe Amy other application of pressure in daily life(7scores)

Yes you can!

- c. Mr. Ntambi , deputy academics at St.Andrew Kaggwa gombe high school purchased some scholastic materials to be used at the beginning of the term among which was a box full of white board markers and glass beakers as shown below

if the box of markers had a mass of 12kg was dimensions 2m by 3m by 1m and its to be put on top of box full of glass beakers .determine with a reason the maximum and minimum pressure that the box would exert on other boxes (5scores)

#### QUESTION 4



Yes you can!

After winning a singing competition, Brenda decided to buy a piece of land from one of the property consultants in her community to start her projects. She was shown two plots A and B of the **same price** but different measurements, **plot A** was measuring **45m by 100m** while **plot B** was measuring **70m by 80m**.

#### Task

- With a reason which plot would you advise Brenda to buy (7 scores)
- The head teacher ordered the carpenter to make a notice board for the school, the noticed board



measured 150cm by 100cm after being made. If the head teacher is to fully use the notice board by pinning documents measuring 30cm by 15cm, what is the maximum number of documents that can be pinned on the board on a given day (8 Scores)

#### QUESTION 5

Early this year President Museveni stopped charcoal burning and whoever caught transporting charcoal is to be severely punished. He added that charcoal burning has caused a great change in the climate and weather conditions in the atmosphere.

Yes you can!



## Task

Present a written document to be published in newspapers about the earth's atmosphere also include other human activities that damage the atmosphere other than charcoal burning



Yes you can!