

Students Name:

School Name..... Index Number

535/2

PHYSICS

(PRACTICAL)

PAPER 2

JULY/AUGUST 2025

2 HOURS



HES MOCK EXAMINATIONS 2025

UGANDA CERTIFICATE OF EDUCATION

PHYSICS

(PRACTICAL)

PAPER 2

2 HOURS

INSTRUCTIONS

- This paper consists of two examinations items
- Answer on item in all
- Any additional items answered will not be scored
- Candidates are not allowed to start working with the apparatus for the first quarter of an hour. This time is to enable candidates read the items thoroughly, checking for the apparatus they will need and plan appropriately.

ITEM 1

Mukwano industry packs omo whose mass lies between 40g to 50g inclusive. For a long time customers have been complaining that the the pack of omo that they buy is under weight. The industry is now in fear of losing customers and the manager of the industry thinks that it could be the packing machine that has a fault. A sample of the omo pack is taken to the laboratory for proof and unfortunately the weighing machine was spoilt. If mass K provided is the estimate of the mass of the sample of the pack of omo.

TASK

Carry out a scientific investigation using the knowledge of physics on how you can help the manager solve the problem.

ITEM 2

An optician suddenly dropped his hand lens which was made of a piece of glass of refractive index lying between 1:30 and 1:70 inclusive and broke in pieces. He couldn't continue with research, but he had some lenses that appeared to have the similar properties as that of the hand lens. He says that it is risky to use another lens only if it had refractive index which lie in the same range.

TASK

Carry out a scientific on how you can help the optician determine the recommended lens for his research.

END