PRESIDENT'S OFFICE

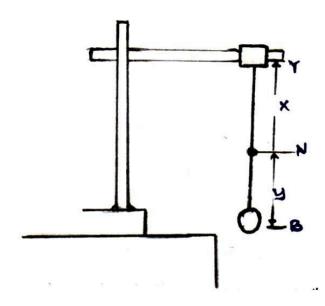
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT KYERWA DISTRICT COUNCIL

031/2 PHYSICS 2A FORM FOUR JOINT MID TERM TEST- APRIL 2023.

TIME 2.30 HOURS.

INSTRUCTIONS.

- 1. This paper consists of two questions.
- 2. Answer all questions.
- 3. Each question carries 25 marks.
- 4. Non-programmable calculators may be used.
- 5. Cellular phones and any unauthorized materials are not allowed in the examination room
- 6. Write your examination number on every page of your answer booklets.
- 1. The aim of this experiment is to determine the acceleration due to gravity g of pendulum bob B.
 - a) Tie a thread to a given pendulum bob .Make a knot at a short distance from the bob. This distance should be of the order of 10 cm.



b) The distance between the knot N and point of suspension is denoted by X as indicated in the figure above .Measure the distance $X=10\mathrm{cm}$.Displace the pendulum bob through a small amplitude of vibration.Find the line t for 30 oscillation and hence determine the periodic time t for one oscillation repeat this process for value of

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