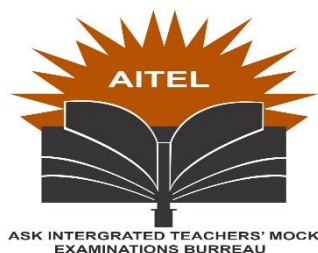


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PHYSICS
Paper 4
July/Aug. 2022



AITEL JOINT MOCK EXAMINATIONS

Uganda Certificate of Education

PHYSICS CONFIDENTIAL

Paper 4

INSTRUCTIONS

In addition to the apparatus ordinarily contained in a physics laboratory, each candidate will require;

Question 1

- 1 metre rule with its mass M_1 labeled on it in kilograms.
- 1 retort stand with a clamp.
- 1 50g mass.
- 2 pieces of thread 70cm long each.
- 1 100g mass.
- 1 knife edge.
- 1 wooden block to raise the knife edge.
- 2 small pieces of wood.

Question 2

- 1 convex lens (focal length 10.0cm).
- 1 plane mirror supported on a piece of wood.
- 1 lens holder.
- 2 fresh dry cells in a holder.
- 1 metre rule.
- 1 Torch bulb in a holder.
- 4 pieces of connecting wires 50cm long each.
- 1 white screen.

Question 3

- 2 fresh dry cells in a holder.
- 1 constant bare (SWG 28), 110.0cm long labeled W.
- 1 standard resistor (2.0Ω) labeled R_1 .
- 1 ammeter (0-1.0A).
- 1 ammeter (0-3.0 or 0-5.0V)
- 1 switch labeled K.
- 7 pieces of connecting wires each 50cm long.
- 2 crocodile clips.
- 2 pieces of cello tape.