

# PHYSICS CONFIDENTIAL

## INSTRUCTIONS TO SCHOOLS.

### QUESTION 1

Each student should be provided with the following:

1. Two 100 g masses with a hook.
2. Two strings, 30 cm long.
3. A metre rule.
4. 25 cm high knife edge.
5. 250 ml beaker with salt solution (50g salt dissolved in 200 ml of water).

### QUESTION 2A

Each student should be provided with the following:

1. Ammeter (0-1A).
2. Voltmeter (0-3V).
3. dry cells.
4. A nichrome wire SWG 24 fixed on a meter rule, labelled Y.
5. A nichrome wire SWG 32 of length 50 cm fixed on a piece of wood labeled X.
6. A switch.
7. Seven connecting wires 4 with crocodile clips.
8. A cell holder to accumulate 2 dry cells.
9. A micrometer screw gauge (to be shared).

### QUESTION 2B

Each student should be provided with the following:

1. A crosswire fixed on a screen, labeled screen B.
2. A candle.
3. A screen labeled screen A.
4. A convex lens of focal length,  $f=20\text{cm}$ .
5. A convex mirror of focal length,  $f=10\text{ cm}$ .
6. Lens holder.
7. A metre rule.
8. Mirror holder.