**MWAKICAN JOINT EXAMINATION**

**TERM 3 2019**

**FORM 3 PHYSICS PP. 3 (PRACTICAL)**

**CONFIDENTIAL: INSTRUCTIONS TO SCHOOLS**

***Each candidate is required to have:***

**Questions 1**

**Part A**

- A rectangular glass block

- Four office pins/masking tape/thumb pins

- Four optical pins

- A plain white sheet of paper

- A soft board

**Part B**

- A cell and cell holder

- Switch

- A 10 Ω carbon resistor labeled R

- Six connecting wires, two with 3 crocodile clips.

- An ammeter (0-1 A)

- A voltmeter (0-5V) or (0-3V)

**Question 2**

1. Complete retort stand with two clamps

2. Some water in a beaker (100ml)

3. 100ml measuring cylinder

4. Boiling tube

5. Cotton thread (100cm)

6. Meter rule

7. Beam balance (can be shared)

8. Vernier callipers (can be shared)