

CONFIDENTIAL
THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATIONS COUNCIL OF TANZANIA
CERTIFICATE OF SECONDARY EDUCATION EXAMINATION 2023

031/2A

PHYSICS 2A
ACTUAL PRACTICAL A

03 HOURS PRACTICAL ADVANCE INSTRUCTIONS

1.0 IMPORTANT

- 1.1 GREAT CARE MUST BE TAKEN NOT TO DIVULGE THESE INSTRUCTIONS TO BOTH CANDIDATES AND UNAUTHORIZED PERSONS EITHER DIRECTLY OR INDIRECTLY.
- 1.2 MAKE SURE THAT THE CANDIDATES ARE PROVIDED WITH THE APPARATUSES INDICATED IN THESE PRACTICAL INSTRUCTIONS ONLY AND NOT OTHERWISE.

2.0 In addition to the normal fittings of a Physics laboratory each candidate will require the following:

- 2.1 A metre rule
A pendulum bob (diameter 1.90 – 1.95 cm)
A retort stands with its accessories
A cotton thread (120 cm long)
A stopwatch/clock
Vernier caliper
- 2.2 A dry cell (ABC Supper Electric, size D, 1.5 V) soldered both ends labelled E
A key K
Voltmeter V (0 – 2 V)
Ammeter A (0 – 1 A)
Resistance box R (0 – 10 Ω)
Eight (8) pieces of connecting wires