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 it 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

CamScanner