CONFIDENTIAL

THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATIONS COUNCIL OF TANZANIA
CERTIFICATE OF SECONDARY EDUCATION EXAMINATION
2021

031/2A

PHYSICS 2A
(PRACTICAL A)

03 HOURS 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 PREPARATION OF APPARATUSES

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

2.1 Retort stand with its accessories
A cotton thread/string of 130 cm long
A pendulum bob
Cork pads
A stop watch
A metre rule
A half metre rule
A wooden rod of 20 cm long and 10 mm diameter.

2.2 Two dry cells (ABC Supper Electric, size D, 1.5 V each) soldered both ends and labelled **E**
Ammeter labelled **A**
Voltmeter labelled **V**
Rheostat (0 – 200 Ω) labelled Rh
Plug key labelled **K**
4 Ω standard resistor

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4 Ω standard resistor labelled **R** whose value should not be disclosed to candidates
Pieces of connecting wires each of about 20 cm long.

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