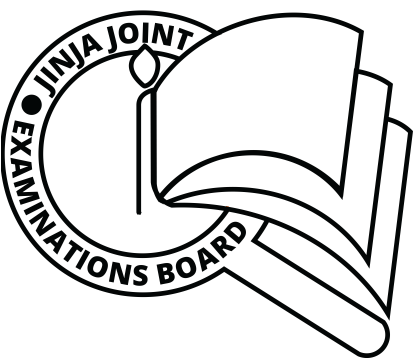
**P510/2**

**PHYSICS**

Paper 2

August, 2019

2½ hours

**JINJA JOINT EXAMINATIONS BOARD**

***Uganda Advanced Certificate of Education***

**MOCK EXAMINATIONS –AUGUST, 2019**

**PHYSICS**

**Paper 2**

(Principal Subject)

2 hours 30 minutes

**INSTRUCTIONS TO CANDIDATES:**

*Answer only* ***five*** *questions, taking at least* ***one*** *question from each of the sections* ***A****,* ***B****,* ***C*** *and* ***D****, but* ***not*** *more than* ***one*** *question should be chosen from* ***either*** *section* ***A*** *or section* ***B****.*

*Any additional question(s) answered will* ***not*** *be marked.*

*Mathematical tables and squared paper will be provided.*

*Non-programmable Silent Scientific Calculators may be used.*

**Assume where necessary;**

*Acceleration due gravity, g = 9.81 m s–* ***2***

*Speed of light in vacuum, c = 3.0 × 10 8 m s* ***– 1***

*Speed of sound in air = 340 m s* ***– 1***

Electronic charge, e = 1.60 × 10 – 19 C

Electronic mass, me = 9.11 × 10 – 31 kg

Permeability of free space, µo = 4.0π × 10 – 7 H m– 1

Permittivity of free space,  = 8.85 × 10 – 12 Fm – 1

The Constant,  = 9.0 × 10 9 F – 1 m

**SECTION A**