

# EXAMINATIONS COUNCIL OF ZAMBIA

Examination for School Certificate Ordinary Level

## Geography

2218/1

### Paper 1

Tuesday

31 OCTOBER 2017

1:50 000 Survey Map is enclosed with this question paper

*Additional materials:*

Multiple Choice answer card

Soft pencil (type B or HB is recommended)

**Time** 1 hour 30 minutes

#### Instructions to Candidates

- 1 Do not open this question paper until you are told to do so.
- 2 Ensure that your **name, centre number and candidate number** have been correctly written on the **Answer Card** provided.
- 3 There are **fifty (50)** questions in this paper. Answer **all** the questions. For each question, there are **four** possible answers, **A, B, C** and **D**. Choose the **one** you consider correct and shade your choice in clear pencil on the separate Answer Card.
- 4 Read the instructions very carefully on the answer card provided.

#### Information for Candidates

- 1 Each correct answer will score **one** mark. A mark will not be deducted for any wrong answer.
- 2 Cell phones and calculators are not allowed in the examination room.

# O Level Geography Paper 1

**Daniel F McAuley**



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voiceover we now begin a whole new area of circuit analysis called sinusoidal steady state analysis you can also call it ac analysis ac stands for alternating current it means it is a voltage or a current that where the signal actually changes sign it is positive sometimes it is negative sometimes

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about transcript the ratio of a sinusoidal voltage to a sinusoidal current is called impedance this is a generalization of ohm s law for resistors we derive the impedance of a resistor inductor and capacitor the inductor and capacitor impedance includes a term for frequency so the impedance of these components depends on frequency

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$\omega$  represents the frequency of a sine wave when we write it this way  $\sin \omega t$  if  $\omega = 1$  the sin completes one cycle in  $2\pi$  seconds if  $\omega = 2\pi$  the sin completes one cycle sooner every 1 second for  $f = 1$  if  $\omega = 2\pi f$  the sin completes one cycle even faster every  $1/f$  seconds or equivalently sin completes  $f$  cycles in 1 second

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