

- Answer ALL the questions in the same handwriting.
- Non-programmable calculators may be used.
- Appropriate mathematical instruments may be used.
- Round off your final numerical answers to a minimum of two decimal places.
- Give detailed reasons, discussions, if asked where needed.
- Write neatly and legibly.

Learner's Name

Learner's Surname

Grade

Page 1 of 5

- The following are represented by A, B and C:
- Amplitude, wavelength, wave length
  - Crest, trough, wavelength
  - Amplitude, wave length, pulse length
  - Crest, trough, wavelength

[2 Marks]

1.5. The displacement of mass  $M$  at points A and B is shown.



Page 2 of 5

### Physical Sciences – Paper 1 (Physics)

How many wavelengths separate point A and B?

- A) 1,25      B) 1      C) 1,5      D) 5

[2 Marks]

1.6. Devices are sometimes placed under the headlights of a car to detect if it is equipped with the following wave...

- A) X-ray      B) Infrared light      C) Ultrasound      D) Ultra violet light

[2 Marks]

1.7. The following are an example of electromagnetic waves:

- Micro waves, visible light, X-rays
- X-rays, visible light, microwaves
- Micro waves, X-rays, visible light

### Physical Sciences – Paper 1 (Physics)

2.2. Identify TWO points in the graph at which the particles would be moving in the same direction.

[2 Marks]

2.3. Which point has the maximum displacement?

[1 Mark]

Calculate

2.4. The frequency of the wave produced

[2 Marks]

2.5. The wavelength of the wave produced

[1 Mark]

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**JS Bruner**



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