

- 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.

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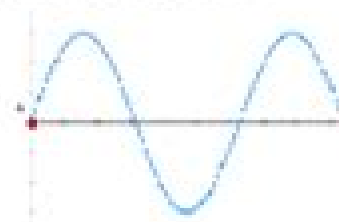
Grade

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

[2 Marks]

1.5. The diagram below shows two points A and B on a wave.



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How many wavelengths separate point A and B?

- A) 1,25 B) 1 C) 1,5 D) 3

[2 Marks]

1.6. Devices are sometimes placed under the hulls of a boat's hulls. This equipment sends 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:

- A) Microwaves, visible light, X-rays
- B) X-rays, visible light, microwaves
- C) Microwaves, X-rays, visible light

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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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B Lingard



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