Practice Question Set For GCSE
Subject : Physics
Paper-1 Topic : 4_ Waves

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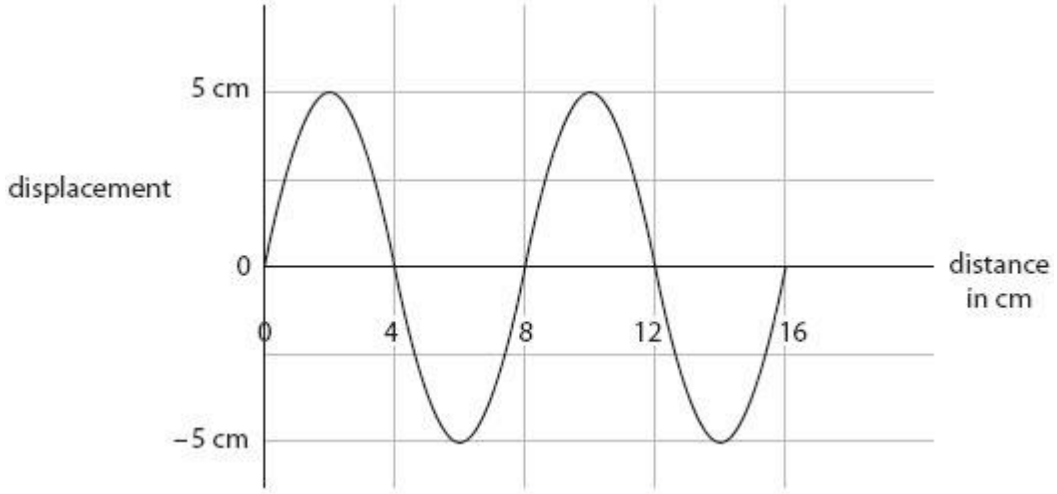
Name of the Student:_____
Max. Marks : 9 Marks **Time : 9 Minutes**

Q1.

(i) The diagram represents a wave.



State the amplitude and wavelength of the wave.

(2)

.....
.....

(ii) 20 waves are sent out in 4 seconds.

Complete the sentence by putting a cross (☒) in the box next to your answer.

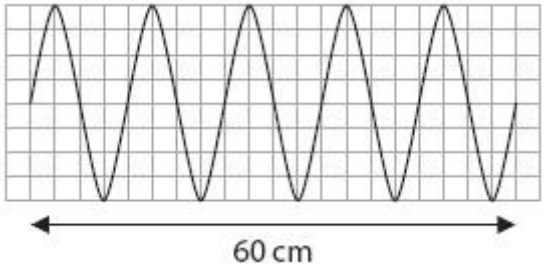
The frequency of the wave is

(1)

☒ **A** 0.2 Hz
☒ **B** 5 Hz
☒ **C** 20 Hz
☒ **D** 80 Hz

Q2.

Some students are investigating waves.
They produce waves by moving a piece of wood up and down in a tank of water.
The diagram shows the waves over a distance of 60 cm.



(i) State the number of wavelengths shown on the diagram.

(1)

.....

(ii) Calculate the wavelength of the waves.

(1)

.....

Q3.

Complete the sentence by putting a cross (☒) in the box next to your answer.
Waves from an earthquake are

(1)

☒ **A** transverse waves only

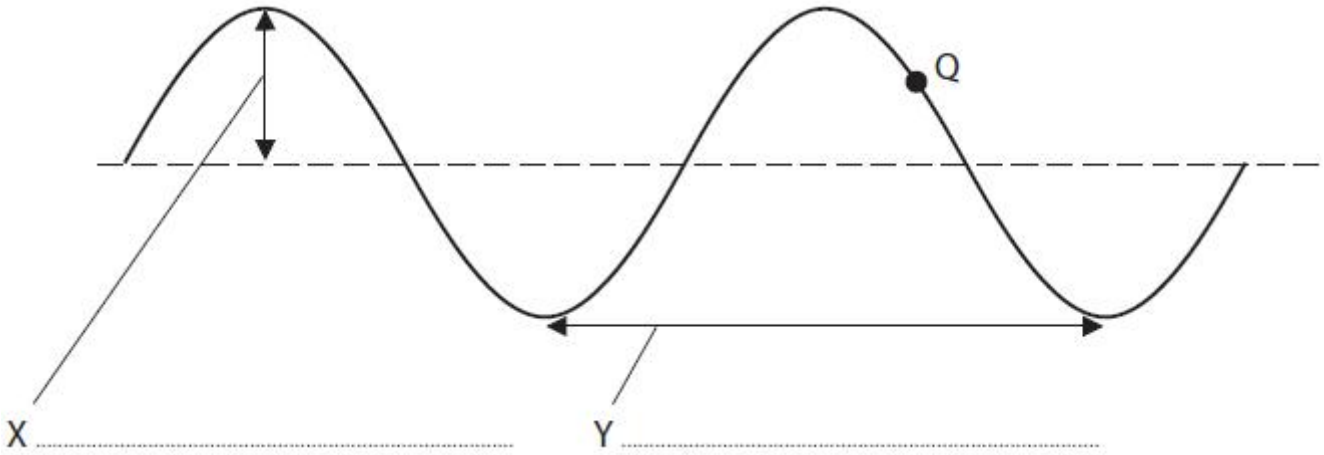
☒ **B** electromagnetic waves only

☒ **C** both transverse and electromagnetic waves

☒ **D** both transverse and longitudinal waves

Q4.

The diagram shows a transverse wave.



(i) Use words from the box to label the distances X and Y.

amplitude	frequency	magnification	speed	wavelength

(2)

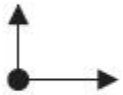
(ii) Q is a particle in the wave.

Which of these shows the way in which particle Q moves?
Put a cross (☒) in the box next to your answer.

(1)

☐ **A**

☐ **B**



☐ **C**

☐ **D**