

## Paper 2

## Question 01

QUESTION	ANSWERS	EXTRA INFORMATION	MARK	AO / SPEC. REF.
01.1	Transverse	Accept spelling that is incorrect if very close	1	AO2 4.6.1.1 4.6.1.2
01.2	Wave or water molecules/ particles vibrate at right angles to direction of wave motion/ energy transfer		1  1	AO2 4.6.1.1 4.6.1.2  AO2
01.3	No she is wrong  36 / 6 = 6 cm 0.06 m	Not necessary to show working for conversion to metres	1  1 1	AO3 4.6.1.1 4.6.1.2  AO3 AO3 WS 4.3
01.4	Amplitude correctly labelled from the midpoint	Label from midpoint to crest or trough both acceptable	1	AO2 4.6.1.1 4.6.1.2
01.5	Frequency is the number of waves passing a point per second  Period is the time it takes for one complete wave cycle/ oscillation/vibration	Accept correct alternative	1  1	AO1 4.6.1.1 4.6.1.2  AO1
01.6	$v = f \times \lambda$ or velocity = frequency $\times$ wavelength	In words or symbol form acceptable  Penalise incorrect use of uppercase letters	1	AO1 4.6.1.1 4.6.1.2
01.7	$v = 6 \times 0.06$ 0.36 m/s	Allow error carried forward mark for incorrect answer from earlier if this value is substituted into equation	1 1	AO2 4.6.1.1 4.6.1.2  AO2
<b>TOTAL</b>			<b>12</b>	