STSSCIS806 Vocational science/ Wave physics I

Unit/Topic	Performance Criteria	Assess Event	Date	Time
Waves, sound and light	**1.1 to 1.4**	**Portfolio task 1**	1/5/2013	25 min.
Student Name	**Teacher**	**Class**	**Total Mark**	
	Ayman AlOmari	VEDC+	/10	

Marking Scheme

Question (1)	Max. Mark	Mark	Comment
a)	1		
b)	1		
c)	1		
d)	1		
e)	1		
f)	2		
g)	2		
h)	1		
Total	10		

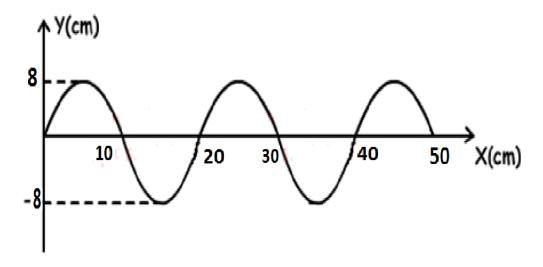|	Sign	Grade
Student signature: I certify that the work presented is my own. I acknowledge that I have received and understood feedback about this assessment.		/10
Student Comment:		
Teacher comment:		

A wave travelling in the positive x direction is showed in the figure. The wave has a <u>frequency (f)</u> <u>of 5 Hz</u>. Find the following.

1)

a) Trough (the point with the minimum displacement) is at y= _____(1 mark)

b) Crest (the point with the maximum displacement) is at y=_____ (1 mark)

c) How many waves in the figure? _____ (1 mark)

d) Amplitude (A) =_____ (1 mark)

e) Wavelength (λ) = _____ (1 mark)

f) Period (T) =   (2 mark)

_____

_____

_____

_____

Use $T = \dfrac{1}{f}$

g) Wave speed=   (2 mark)

_____

_____

_____

Use $v = f\lambda$

h) What is the wave type (Longitudinal or transverse)?   (1 mark)

_____

Unit/Topic	Performance Criteria	Assess Event	Date	Time
Waves, sound and light	**1.1 to 1.4**	**Portfolio task 1**	1/5/2013	25 min.
Student Name	**Teacher**	**Class**	**Total Mark**	
	Ayman AlOmari	VEDC+	/10	

1)

a) 8 cm   (1 mark)

b) 8 cm   (1 mark)

c) 8 cm   (1 mark)

d) Amplitude (A) =_____   (1 mark)

e) 20 cm   (1 mark)

f) Period (T) =

$T = \frac{1}{f}$

$T = \frac{1}{5}$ $1\ mark$

$T = 0.2\ s$ 1 mark for answer and unit

g) $v = f\lambda$

$v = 5\ \times 20$ $1\ mark$

$v = 100\ cm/s$ 1 mark for answer and unit

h) Transverse   1 mark