STSSCIS806 Vocational science/ Wave physics I

Unit/Topic	Performance Criteria	Assess Event	Date	Time
Waves, sound and light	**1.4, 2.1 & 2.2**	**Portfolio task 2**	8/5/2013	30 min.
Student Name	**Teacher**	**Class**	**Total Mark**	
	Ayman AlOmari	VEDC+	/15	

Marking Scheme

Question	Max. Mark	Mark	Comment
Q1	1 mark for each (1X5=5)		
Q2	1 for applying in the formula		
	1 for answer with the unit		
Q3	1 mark for each (1X8=8)		
Total	15		

Q1) Choose the correct answer. (5 marks)

1) What causes sound waves?
   a. Vibrations
   b. Heat
   c. Light

2) What is the direction of vibrations in relative to the sound propagation?
   a. Perpendicular
   b. Opposite
   c. In the same direction

3) Where do sound waves travel in?
   a. Vacuum
   b. Solids only
   c. Liquid and gases only
   d. Solids, liquids, and gases

4) What wave type are the sound waves?
   a. Transverse
   b. Longitudinal
   c. Both transverse and longitudinal

5) The frequency of a sound wave is 1000 Hz. What is its period?
   a. 0.001 s
   b. 1 s
   c. 1000s

6) A sound wave travels in a speed of 340 m/s, its frequency is 100 Hz.
   Find the wave length. $v = f\lambda$ (2 Marks)
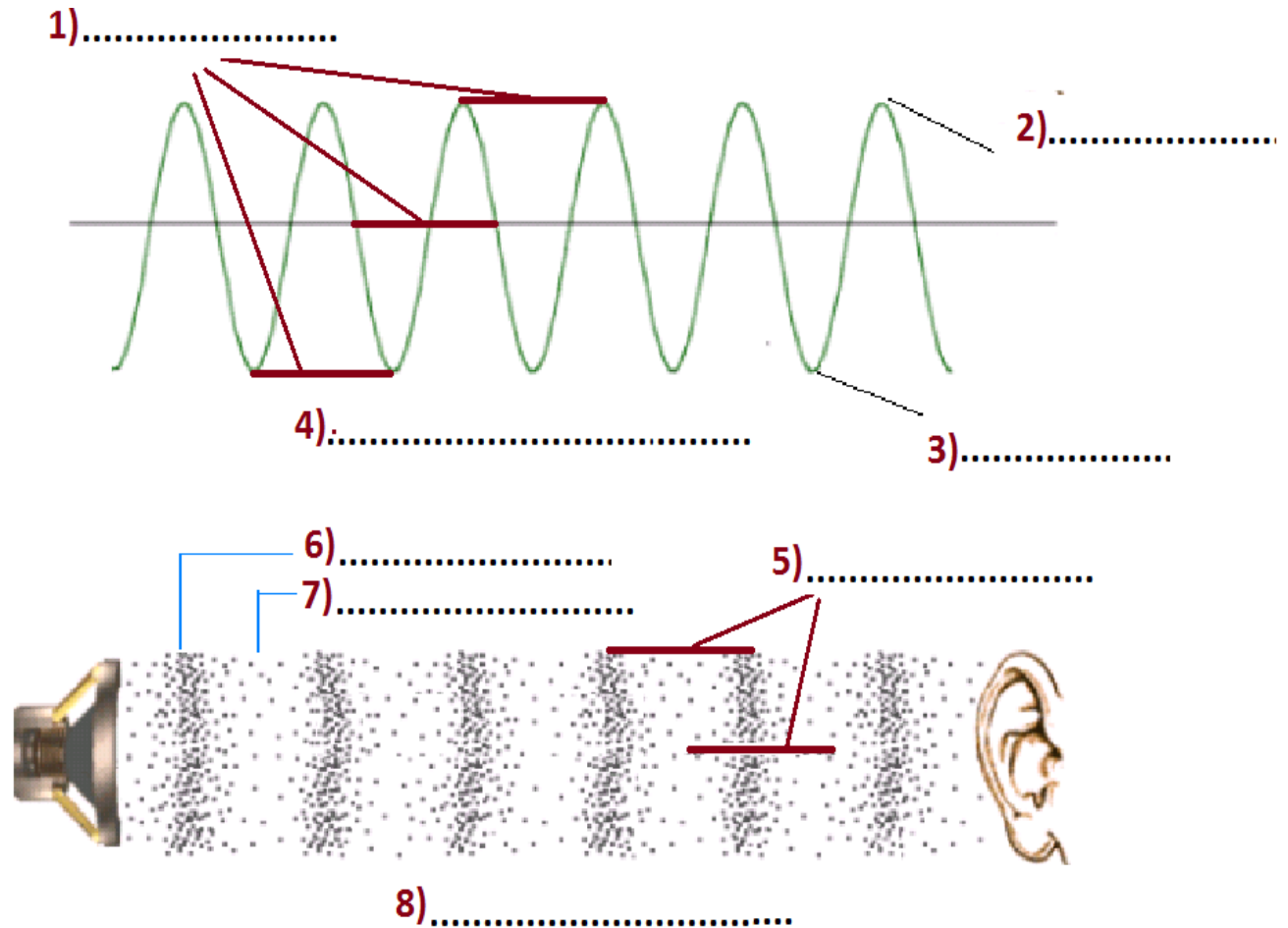
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Q3) On the following figure label the following:-   (8 Marks)

Transvers waves, longitudinal waves, compression, rarefaction, crest, trough, wavelength.

1)........................

2)....................

4):......................................

3)...................

6)........................

7)........................

5)........................

8).................................

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Q1)

1	2	3	4	5
a	c	d	b	a

Q2) 3 or 2 steps of the following worth 2 mark

$$\lambda = \frac{v}{f} \quad , \qquad \lambda = \frac{340}{100} \quad , \qquad \lambda = \ 3.4 \text{ m}$$

Q3) one mark for each