

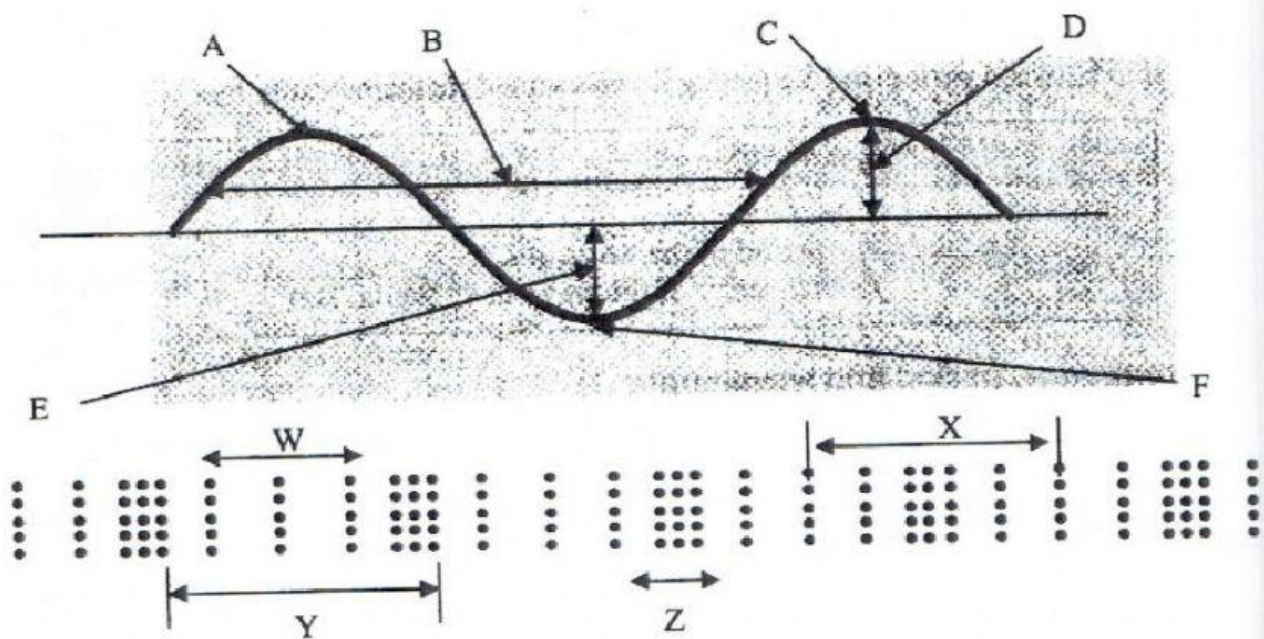
Exercises

1. The number of waves per second passing a fixed point is called the _____ and is measured in _____.
2. The time taken for two adjacent crests to pass a fixed point is called the _____ and is measured in _____.
3. The maximum distance of particles from their resting position is called the _____.
4. The highest point on a sine wave is called a _____ or _____.
5. The lowest point on a sine wave is called a _____.
6. Define a transverse wave:

7. Define a longitudinal wave:

8. Give two examples of a transverse wave:
_____ and _____
9. Give two examples of longitudinal waves:
_____ and _____
10. Using the diagrams below write the letter that identifies the following:

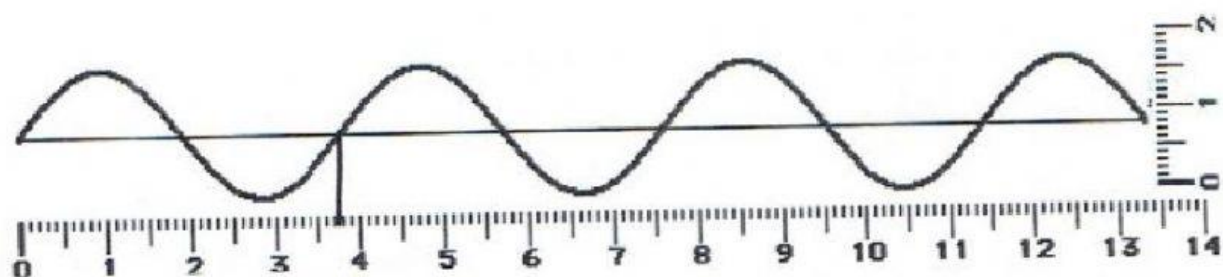
(i) _____	=	crest
(ii) _____	=	rarefaction
(iii) _____	=	line of origin or rest position
(iv) _____	=	amplitude
(v) _____	=	compression
(vi) _____	=	wavelength
(vii) _____	=	trough



11. Calculate the velocity if wavelength = 8 m and $f = 20$ Hz.

12. Calculate wavelength if $v = 50$ m/s and $f = 25$ Hz.

13. Calculate frequency if $v = 120$ m/s and wavelength = 3 m.



14. Use the diagram above, record

- (a) _____ amplitude and
(b) _____ wavelength

15. Period of the wave is 5 s. If the wavelength is 6 m, calculate:

- (a) the frequency
(b) the speed.