## WORKSHEET NO 10

Subject: Science	Date: 24/01/2014			
	Class: 9			

 Figure shows the position of layers of air, at one moment, as a sound wave of constant frequency passes through the air. Compressions are labeled as C and Rarefraction are labelled as R

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State how figure would change if

- a) sound has higher frequency
- b) the sound were louder
- c) On figure draw a line marked with arrows to show the wavelength of sound.
- 2. In a ripple tank 12 ripples are produced in one second. If distance between crest and next trough is 10cm find:
- a) wavelength
- b) frequency
- c) velocity of the wave.
- 3. a) A longitudinal wave of wavelength 1cm travels in air with a speed of 330 m/s. Calculate the frequency of the wave. Can this be heard by normal human?
  b) When we put our ear to a railway track, we can hear the sound of an approaching train even when the train is far off but its sound cannot be heard through air. Why?
- 4. Write chemical formulae of following:
  - a) lead nitrate
  - b) washing soda
  - c) magnesium(||) acetate
  - d) mercury(||) chloride
- 5. Arrange the following in order of decreasing masses.
- a) 0.1g atom of silver
- b) 1 mole of sulphuric acid
- c) 1g of carbon
- 6. Verify the following:
- a) 5 moles of carbon dioxide and 5 moles of water do not have same mass.
- b) 240g of calcium and 240g of magnesium elements have a mole ratio 3:5
- 7. Describe the importance of classification. Give salient features of Class Pisces
- 8. Why is AIDS considered to be a syndrome and not a disease. Differentiate between acute diseases and chronic diseases.

## WORKSHEET NO 1

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9. Why is it necessary to conserve natural resources? How can they be conserved?

10. Define biogeochemical cycles. Explain the oxygen cycle and nitrogen cycle.