

ASSIGNMENT FOR THE SESSION 2014-2015

Class: VII

Subject : Science & Tech.

Assignment No. 1

Section – A : Physics

1. Explain the formation of cyclones.
2. Write four precautions to be followed in case of a thunderstorm.
3. Differentiate between uniform speed and non-uniform speed. Explain the term average speed.
4. On a 120 km track, a train travels 30 km at a uniform speed of 30 km/h. How fast must the train travel the next 90 km so as to average 60 km/h for entire trip?
5. Can a body be at rest as well as in motion at same time? Explain.
6. Explain following terms –
 - (i) Amplitude
 - (ii) Time-period
7. A girl took five complete revolutions on a giant wheel, having 7m diameter. Calculate distance traveled by her in cm.
8. Draw the distance-time graph when
 - (i) The object is at rest.
 - (ii) The object is in uniform motion.
 - (iii) The object is in non-uniform motion.

Section – B : Chemistry

1. Match the following.

i) Element	a) combination of elements in fixed ratio
ii) Compound	b) pure substance having only one type of atoms
iii) Ions	c) Combination without any reaction
iv) Mixture	d) charged species
2. Write the name of the following symbol.
He , Fe, Cl, Be, C , Zn H, Ag, Au, Cu.
3. Indicate whether the following is physical or a chemical change.
 - a) Evaporation of water
 - b) Neutralization reaction
 - c) Sublimation of camphor
 - d) Milk turns into curd
 - e) Rusting of Iron
 - f) Hydrous salt change into anhydrous salt
 - g) Burning of paper
4. Define the following.

a) Galvanization	b) Crystallization	c) Rusting of Iron
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5. Balance the following chemical equations.
 - i) $\text{NaOH} + \text{H}_2\text{SO}_4 \Rightarrow \text{_____} + \text{H}_2\text{O}$
 - ii) $\text{Ca(OH)}_2 + \text{CH}_3\text{COOH} \Rightarrow \text{_____} + \text{_____}$

Section – C : Biology

1. 'Animals living in the forest help it to grow and regenerate'. Justify this statement by giving examples.
2. Draw the labelled diagram of the soil profile.
3. What is seed dispersal? What is the importance of seed dispersal? Mention the various agents of seed dispersal giving an example for each.
4. Mention the importance of forests.
5. Write three differences between sandy and clayey soil.
6. What is fertilization? With the help of labelled diagram, show the process of fertilization in plants.
7. What are decomposers? What is the significance of decomposers in forest?
8. Explain the mode of reproduction in yeast with the help of a diagram.

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