



Worksheet -1 | Science-X| Topic – Carbon and its Compound

Daily Dose - 1

Carbon and its Compounds

Objective Questions

1. Which of the following gases is called 'marsh gas' -
(a) H_2 (b) CH_4
(c) C_2H_4 (d) C_2H_2

Ans : (b) CH_4

2. Which of the following will contain covalent double bond between its atoms?
(a) H_2 (b) O_2
(c) $NaCl$ (d) Cl_2

Ans : (b) O_2

Oxygen atom has six (6) valence electrons. Thus, to complete its octet, it forms double bond with another oxygen atom to get O_2 molecule.

3. Which of the following can show addition reaction?
(a) C_2H_4 (b) C_2H_6
(c) C_2H_5OH (d) $CH_3CH_2CH_3$

Ans : (a) C_2H_4

Presence of double bond between two carbon atoms is the necessary condition to show addition reaction. Thus, only $C_2H_4(CH_2=CH_2)$ can show the addition reaction.

4. Which of the following is not the property of homologous series?
(a) They differ by- CH_2 units
(b) They differ by-14 units by mass
(c) They all contain double bond
(d) They can be represented by a general formula

Ans : (c) They all contain double bond

It is not necessary for a homologous series that it must contain the double bond.

5. Which of the following is not a property of carbon?
(a) Carbon compounds are good conductor of heat and electricity
(b) Carbon compounds are poor conductor of heat and electricity
(c) Most of the carbon compounds are covalent compounds
(d) Boiling and melting point of carbon compounds are relatively lower than those of ionic compounds

Ans : (a) Carbon compounds are good conductor of heat and electricity

Carbon compounds are covalently bonded and are poor conductor of heat and electricity. Due to covalent

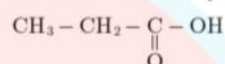
bonds, their boiling and melting points are relatively lower than those of ionic compounds.

6. Correct formula for propanoic acid is

- (a) CH_3COOH
(b) $CH_3-CH_2-COOCH_3$
(c) $HOOCCH_2CH_3$
(d) CH_3COOCH_3

Ans : (c) $HOOCCH_2CH_3$

The correct formula for propanoic acid is as follows:



7. The final product of chlorination of methane in the sun light is-

- (a) CH_3Cl (b) CH_2Cl_2
(c) $CHCl_3$ (d) CCl_4

Ans : (d) CCl_4

8. Oils on treating with hydrogen in the presence of palladium or nickel catalyst form fats. This is an example of

- (a) addition reaction (b) substitution reaction
(c) displacement reaction (d) oxidation reaction



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9. Carbon exists in the atmosphere in the form of
(a) carbon monoxide only
(b) carbon monoxide in traces and carbon dioxide
(c) carbon dioxide only
(d) coal

Ans : (b) carbon monoxide in traces and carbon dioxide

10. The number of oxygen molecules used in the combustion of 1 molecule of ethanol is-

- (a) 1 (b) 2
(c) 3 (d) 4