

S.A. –II

CHEMISTRY

Class X

- Q.1 Make electron dot structure as well as structure of the following compounds.
- (a) Hydrogen Sulphide
 - (b) Ethene
 - (c) Ethanol
 - (d) Ammonia
- Q.2 How will you convert the following:-
- a. Ethanol into Ethene b. Ethanol into Ethyl Ethanoate
 - c. Ethanol into Ethanoic Acid.
- Q.3 Write the formula of Butanone and Pentanal.
- Q. 4 A organic compound 'A' has molecular formula C_2H_6O . It is good solvent used in Industries. When it is treated with vinegar, it forms a compound 'B' which is a sweet smelling liquid and has a fruity smell.
- (a) Identify 'A' and 'B'
 - (b) Write the Chemical Equation for formation of 'B'.
 - (c) Define the process taking place.
- Q.5 Which of the following will give addition reactions:-
- C_3H_4 , $C_{10}H_{22}$, $C_{11}H_{22}$
- Q.6 Differentiate between Soap and Detergents.
- Q.7 Element X with atomic number 12 and Element Y with atomic number 17 reacts with Hydrogen to form hydrides. Which of them is expected to have high Melting Point.?
- Q.8 Define Modern periodic law ?
- Q.9 Name 2 elements which will be chemically similar to Aluminum. What is the basis of your choice ?

- Q.10 Name an element which has 2 electrons in its 'N' shell ?
- Q.11 Element M is in the 1st group of the periodic table. Write the formula of its Oxide ?
- Q.12 Indicate the Number. of valence electrons present in elements belonging to
(a) Group 17 (b) Group 16
- Q.13 An element has 2 electrons in its M shell.
(a) Identify the element.
(b) What type of ion will it form.
(c) What will be the formula of its Chloride.
- Q.14 What similarity do you observe in
(a) Elements belonging to same Period.
(b) Elements belonging to same Group.
- Q.15 How does atomic size vary down the group?

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X Chemistry

MCQ

Q.1 Acetic Acid has formula

(e) $\text{C}_2\text{H}_5\text{COOH}$ (b) CH_3COOH (c) HCOOH (d) CH_3OH

Q.2 When Sodium Bicarbonate reacts with Acetic Acid, the gas released is

(a) Carbon dioxide (b) Hydrogen (c) Oxygen

Q.3 When water is added to Acetic Acid, it forms a solution which is:-

(a) Turbid

(b) Transparent and Clear

(c) precipitate is formed

(d) blue solution is formed.

Q.4 On adding Zinc granules to freshly prepared ferrous sulphate solution, we observe that

(a) A dull brown coating is formed

(b) A black coating is formed

(c) A greyish coating is formed

(d) No reaction takes place

Q.5 Which of the following will form a coloured solution in water ?

(a) Copper Sulphate

(b) Zinc Sulphate

(c) Sodium Sulphate

(d) Aluminium Sulphate

Q.6 In Ester formation following reacts

- (a) Acids and Alkalis
- (b) Carboxylic Acid and alcohol
- (c) Ketone and Acids
- (d) Acid and water