



Allied School

Test Series –II

Test -1

Name : _____

Class : 9th

Subject :Chemistry

Section- A (Marks -15)

Encircle the correct answer. Cutting/overwriting is not allowed. Each question carries equal marks.

- i. How many periods are there in the periodic table?**
(A) 6 (B) 7 (C) 8 (D) 18
- ii. The number of protons in an atom determines its:**
(A) Atomic mass (B) Isotope (C) Atomic number (D) Neutron count
- iii. Which of the following is an example of a homogeneous mixture?**
(A) Sand and water (B) Saltwater (C) Oil and water (D) Flour and sugar
- iv. The molar mass of NaCl is:**
(A) 23 g/mol (B) 35.5 g/mol (C) 58.5 g/mol (D) 45 g/mol
- v. Which element has the highest atomic mass in the first period?**
(A) Hydrogen (B) Helium (C) Lithium (D) Carbon
- vi. The electronic configuration of sodium (Na) is:**
(A) $1s^2 2s^2 2p^6$ (B) $1s^2 2s^2 2p^6 3s^1$ (C) $1s^2 2s^2 2p^6 3p^1$ (D) $1s^2 2s^2 2p^6 3d^1$
- vii. What is the simplest whole-number ratio of atoms in a compound called?**
(A) Molecular formula (B) Empirical formula (C) Structural formula (D) Ionic formula
- viii. The branch of chemistry that help in treating disease is called?**
(A) Physical (B) Organic (C) Inorganic (D) Environment
- ix. Anything that has mass and occupies space is called**
(A) Liquid (B) Gas (C) Solid (D) Matter
- x. Which of the following obey duplet rule?**
(A) H_2 (B) N_2 (C) F_2 (D) Cl_2
- xi. Identify the covalent bond.**
(A) KF (B) H_2O (C) MgO (D) NaCl
- xii. What is the mass of 4 moles of hydrogen gas?**
(A) 8.064g (B) 4.032g (C) 1g (D) 1.008g
- xiii. What is the mass of carbon present in 44g of CO_2 ?**
(A) 12g (B) 44g (C) 6g (D) 24g
- xiv. The oxidation state of Cr in $K_2Cr_2O_7$ is**
(A) +12 (B) +6 (C) -6 (D) +3
- xv. Oxidation is**
(A) gain of electrons (B) loss of electrons (C) gain of hydrogen (D) loss of oxygen

Section- B (Marks -20)

Note : Attempt 5 parts each parts carry equal Marks (5 x 4 = 20)

- i. Which one has more shielding effect Ca or Mg and why?
- ii. Calculate the mass in grams of each of the following samples.
(a) 1.2 moles of K (b) 0.15 moles of steam
- iii. Explain one example from daily life that involves an oxidation-reduction reaction.
- iv. What are isotopes? Give one example.
- v. Define analytical chemistry.

Section-C (Marks 15)

Note: Attempt 2 parts each part carry equal Marks (2 x 7.5 = 15)

QNo2: Explain coordinate covalent bond with examples.

QNo3: Write a detailed note on Halogens.