

Note: Time allowed for section B and C is 2 hours and 40 minutes.

Marks: 32

SECTION "B"

II. Attempt any EIGHT Parts out of the following. Each Part carries equal marks.

- i. What are the contribution of Muslim scientist Ibne-Sina in the field of Chemistry?
- ii. Calculate the mass of 3moles of ice?
- iii. Write the electronic configuration of  $_{11}\text{Na}^{23}$ ,  $_{17}\text{Cl}^{35}$ ,  $_{6}\text{C}^{12}$  and  $_{20}\text{Ca}^{40}$ .
- iv. Why atom is considered as neutral particle. Give reason?
- v. Which element of group IA is not an alkali metal and why?
- vi. Name the four factors which affect electron affinity?
- vii. Differentiate b/w octet rule and Duplet rule with example?
- viii. What is evaporation? Also name the factor which affect evaporation.
- ix. What is molarity.
- x. Differentiate b/w oxidation and reduction.
- xi. Write uses of Calcium.

SECTION "C"

Marks: 21

Note: Attempt any THREE questions of the following. Each question carries equal Marks.

- III. (a) State and explain with examples the empirical formula of a compound.  
(b) What are the defects in Rutherford Atomic Model?
- IV. (a) Define ionization Potential what is the trend of ionization potential in periodic table?  
(b) Explain Polar Covalent bond with example.
- V. (a) Describe the typical properties of Gases?  
(b) Calculate the molar mass of NaOH.
- VI. (a) Differentiate b/w hard and soft metals?  
(b) What is Electroplating?

<b>CHEMISTRY (New) Class 9<sup>th</sup></b> Time: 20 Minutes      Marks: 12 <b>Multiple Choice Questions</b> 01 Mark for each	Paper Code <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3	Roll No. of the Student	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
		Serial No. Of the Answer Book _____					

### SECTION-A

Note:

- 1) Attempting all MCQs is compulsory. This paper along with the OMR sheet must be returned to the superintendent after due time.
- 2) Fill the circle (A)(B)(C)(D), which one is correct with blue or black ball point, in this sheet as well as in separate OMR Sheet like
- 3) If more than one circle in the OMR sheet is filled then no credit will be given to such answer.

- I.i. The gain of electron is called \_\_\_\_\_.
- (A) Oxidation      (B) Reduction      (C) Ionization      (D) Hydration
- ii. The word alkali means \_\_\_\_\_.
- (A) Base      (B) Basic Salt      (C) Acid      (D) Ashes
- iii. Elements of group VII A are called \_\_\_\_\_.
- (A) Alkali Metal      (B) Transition Element      (C) Halogens      (D) Alkaline earth metal
- iv. Milk is an example of \_\_\_\_\_.
- (A) Solution      (B) Saturated Solution      (C) Colloids Solution      (D) Suspension
- v. Carbon exists in \_\_\_\_\_ crystalline allotropic forms.
- (A) Two      (B) Three      (C) Four      (D) Five
- vi. An atom with a charge is called \_\_\_\_\_.
- (A) An electron      (B) A molecule      (C) A metal      (D) An ion
- vii. The covalent bond in which only one atom donates the shared pair of electron is called \_\_\_\_\_.
- (A) Ionic bond      (B) Covalent bond      (C) Dative bond      (D) Metallic bond
- viii. Shielding effect is due to \_\_\_\_\_.
- (A) Neutron      (B) Proton      (C) Proton and neutron      (D) Electron
- ix. The mass of electron is \_\_\_\_\_.
- (A) 1.0086 amu      (B) 1.0072 amu      (C) 1.009 amu      (D) 0.00054 amu
- x. Isotopes of the same element have \_\_\_\_\_.
- (A) Same number of protons      (B) Same number of neutrons      (C) Different number of electrons      (D) Same mass number
- xi. The study of qualitative and quantitative analysis of matter is called \_\_\_\_\_.
- (A) Environmental Chemistry      (B) In-organic Chemistry      (C) Analytical Chemistry      (D) Physical Chemistry
- xii. \_\_\_\_\_ is generally known as the father of the chemistry.
- (A) Al-Razi      (B) Jabber Ibn Hayan      (C) Al-Beruni      (D) Ibne-Sina