

PR IX(01)16
CHEMISTRY(New)
9th(Fresh/Reappear)

For English Medium Students

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Note : There are THREE sections in this paper I.e. Section A , B and C.

Attempt Section –A on the same paper and return it to the superintendent within the given time.

No marks will be awarded for Cutting Erasing or Overwriting. Marks of Identification will lead to UFM Case, Mobile Phone etc are not allowed in the examination hall.

Q-1 Write the correct option I.e. A, B, C or D in the empty box provided opposite to each part.

- I. A cation is (B)
A. Neutral B. Negatively charged C. Positively charged
D. Coloured
- II. Periodic table of elements consists of periods.
A. 4 B. 5 C. 6 D. 7 (C)
- III. The Alchemist tried to convert base metals into
A. Mercury B. Iron C. Gold D. Copper
- IV. The halogen present in the solid form is (B)
A. Chlorine B. Fluorine C. Iodine D. Bromine
- V. NaCl is an example of (C)
A. Ionic bond B. Covalent bond C. Metallic bond
D. None of these
- VI. The maximum number of electrons in L shell is
A. 4 B. 6 C. 8 D. 10 (B)

VII. Ink spreads in water because of (B)
A. Vapour pressure B. Compressibility C. Diffusion
D. Dipole moment

VIII. The number of valence electrons of group II elements are (A)
A. 2 B. 4 C. 6 D. 8

IX. Which one is the chemical property of substance? (B)
A. Solubility B. Density C. Melting point D. Corrosion

X. What geometrical shape NH_3 molecule has? (B)
A. Linear B. Triangular C. Tetrahedral D. Pyramidal

XI. Water in air is an example of solution of (C)
A. Gas in gas B. Gas in liquid C. Liquid in liquid D. None of these

XII. Hydrogen has isotopes. (D)
A. 2 B. 3 C. 4 D. 5

Section –B

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Section B

Q-II Answer any EIGHT parts .Each Part carries FOUR marks.

1. Define element and compounds .With examples.
2. How many moles of CO_2 are present in 60 grams of CO_2 ?
3. What is the number of Protons, Electrons and Neutrons in $^{20}_{10}\text{Ne}$ and $^{235}_{92}\text{U}$?
4. What is meant by Ionization Energy?
5. Write four properties of ionic compounds.
6. State Charles Law.
7. Why gas expands on Molarity?
8. What is meant by Molarity?
9. Explain Suspension.
10. Write note on Electrolysis.
11. Write four chemical properties of Sodium (Na)

Section-C

Note : Attempt any THREE questions.

Q-III (a) Differentiate Atomic number and Mass number by giving examples.

(b) Calculate the number of moles in 550 grams of NaI.

Q-IV (a) What is meant by electron affinity ? Discuss its variation in periodic table.

(b) K Shell shields the nucleus the most .Why?

Q-V (a) Define and explain the Ionic Bond.

(b) Discuss four typical properties of Gases.

Q-VI (a) Define solubility .Explain the factors which effect Solubility.

(b) All electrolytes are conductors. Why?