

TIME: - 03 HOURS  
 GROUP: **I**

**SUBJECT: CHEMISTRY-B**  
 Attempt all Sections.  
**Section-A (18 Marks)**

MARKS:- 85  
 PASS MARKS :- 28  
**CHEMISTRY**  
 (12)

- Q.1. (a) Choose the correct answers .**
- (i) Which one of the following elements belongs to 7th group in periodic table.  
 (a) Be (b) Ba (c) Br (d) He (a)Ba (b) Mg (c) Ca (d) Sr
  - (ii) The element having small radius
  - (iii) Formula of dolomite is  
 (a) MgCO<sub>3</sub>. CaCO<sub>3</sub> (b) MgCO<sub>3</sub> (c) CaCO<sub>3</sub> (d) Al<sub>2</sub>O<sub>3</sub>  
 (a) O (b) S (c) Se (d) Te
  - (iv) The element with low density in 6<sup>th</sup> group is (a)Ne (b) Br (c) Na (d) Ca
  - (v) Element with complete Valence shell is (a)18 (b) 16(c) 14 (d) 10
  - (vi) Number of Transition elements in 4<sup>th</sup> Period is (a)18 (b) 16(c) 14 (d) 10
  - (vii)  $\begin{matrix} \text{O} \\ || \\ \text{R}-\text{C}-\text{H} \end{matrix}$  is formula of functional group (a)aldehydes (b) Ketones (c) Ether (d) Ester
  - (viii) An example of saturated hydrocarbon is (a) C<sub>2</sub>H<sub>6</sub> (b) C<sub>2</sub>H<sub>4</sub> (c) C<sub>2</sub>H<sub>2</sub> (d) C<sub>6</sub>H<sub>6</sub>
  - (ix) Number of H-atoms in Phenyl is (a) 4 (b) 5 (c) 6 (d) 2
  - (x) Types of Alkyle halides (a)2 (b) 3 (c) 4 (d) 5
  - (xi) CH<sub>3</sub>.O.CH<sub>3</sub> is (a) Alcohol (b) Ether (c) Phenol (d) Amine
  - (xii) Number of C-atoms in formic acid is (a)1 (b) 2(c) 3 (d) 4

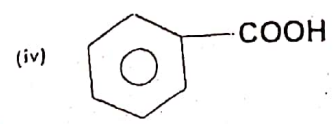
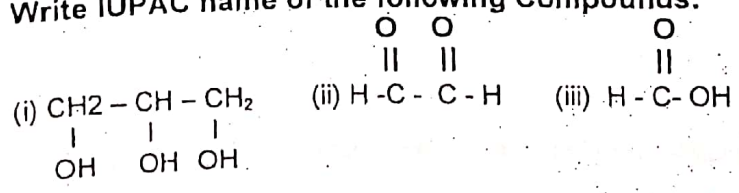
- (b) Fill in the blanks** (06)
- (i) Electronegativity \_\_\_\_\_ down the group.
  - (ii) There are \_\_\_\_\_ electrons in d-orbital.
  - (iii) There are \_\_\_\_\_ Pi-bonds in C<sub>2</sub>H<sub>2</sub>.
  - (iv) SN1 reaction take place in \_\_\_\_\_ Step.
  - (v) Proteins are classified in to \_\_\_\_\_ groups.
  - (vi) There are \_\_\_\_\_ in the valence shell of the elements of 4th group.

**Section B (13 x 3=39 Marks)**

- Q.2. Attempt any thirteen Questions , each question carry (03) Marks.**
- (a) Write only three dissimilarities of hydrogen with elements of seventh group .
  - (b) Where dolomite is found.
  - (c) Compare Phosphates of Alkali and Alkaline earth metal.
  - (d) Which one of the elements of group fourth has large atomic radius and why?
  - (e) How Mg, Fe and Zn reacts with H<sub>2</sub>SO<sub>4</sub>?
  - (f) What is cast and wrought iron?
  - (g) Define Tertiary C-atom with example.
  - (h) What is the name and formulas of first three members of olefins.
  - (i) Define ortho and Para directive gp with exmple?
  - (j) How Alkylhalides are formed from alkene.
  - (k) What is Lucas test.
  - (l) Give three uses of Phenol .
  - (m) What is Silver minor test?
  - (n) Why Ethanoic acid is called Acetic acid?
  - (o) What is Terpolymer, give example .
  - (p) How KNO<sub>3</sub> is prepared .
  - (q) What are the effects of acid rain?

**Section-C (7 x 4=28 Marks)**

- Note: - Attempt any four questions each question carry Seven marks.**
- Q.3. What is group? Explain it in the periodic table .
  - Q.4. Discuss in detail Oxides of Alkali metals.
  - Q.5. Write down seven chemical properties of Aluminium .
  - Q.6. Explain Cracking with its types.
  - Q.7. How Alkynes are prepared by dehalogenation of di and Trihalides?
  - Q.8. How can you classify the enzymes?
  - Q.9. (a) **Draw structure for following compounds.**  
 (i) Dibromomethane (ii) Ethanone (iii) o-Xylene  
 (b) **Write IUPAC name of the following Compounds.**



\*\*\*THE END\*\*\*