

UNSOLVED**Chemistry****Tenth, 2025
Lahore Board****Group – II****Time: 15 Min.****Objective Type****Marks : 12****Note:**

Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer book. Cutting or filling two or more circles will result in zero mark in that question.

- 1.1** Which one of the following is a reducing sugar:
Ⓐ Maltose Ⓑ Glucose
Ⓒ Sucrose Ⓓ Starch
- 2** Dysentery is a disease of
Ⓐ Heart Ⓑ Liver
Ⓒ Stomach Ⓓ Intestine
- 3** The formula of bleaching powder is:
Ⓐ Ca(OH)_2 Ⓑ Ca(OCℓ)
Ⓒ CaCl_2 Ⓓ Ca(OCℓ)Cl
- 4** Just above the earth's surface is:
Ⓐ Mesosphere Ⓑ Stratosphere
Ⓒ Thermosphere Ⓓ Troposphere
- 5** Concentration is a:
Ⓐ Mixing technique Ⓑ Separating technique
Ⓒ Boiling technique Ⓓ Cooling technique
- 6** At dynamic equilibrium:
Ⓐ The reaction stops to proceed
Ⓑ The amounts of reactants and products are equal
Ⓒ The speeds of forward and reverse reactions are equal
Ⓓ The reaction can no longer be reversed
- 7** The order of reactivity of hydrogen halides with alkenes is:
Ⓐ $\text{HI} > \text{HBr}$ Ⓑ $\text{HBr} > \text{HI}$
Ⓒ $\text{HCl} > \text{HBr}$ Ⓓ $\text{HBr} < \text{HCl}$
- 8** Which is the king of chemicals :
Ⓐ HNO_3 Ⓑ HCl
Ⓒ CH_3COOH Ⓓ H_2SO_4
- 9** Who proposed the name of vitamins:
Ⓐ Watson Ⓑ Lewis
Ⓒ F. Crick Ⓓ Funk
- 10** Which one of the following is not a fossil fuel:
Ⓐ Coal Ⓑ Natural gas
Ⓒ Biogas Ⓓ Petroleum
- 11** Which one of the following is a Lewis base :
Ⓐ NH_3 Ⓑ BF_3
Ⓒ H^+ Ⓓ AlCl_3
- 12** Which of the following gas is used to destroy harmful bacteria in water:
Ⓐ Iodine Ⓑ Fluorine
Ⓒ Chlorine Ⓓ Bromine

PART – I**Q.2 Write short answers to any FIVE (5) questions: 10**

- i** Write two macroscopic characteristics of dynamic equilibrium.
- ii** Differentiate between forward and reverse reactions.
- iii** Why reversible reactions never complete?
- iv** Define salts with an example.
- v** Write name of two acids used in the manufacturing of fertilizers.
- vi** Define Lewis concept of acids and bases.
- vii** Why are the alkanes called "paraffins"?
- viii** Define closed chain or cyclic hydrocarbons.

Q.3 Write short answers to any FIVE (5) questions: 10

- i** What are alkyl radicals? Give their general formula.
- ii** What is the importance of natural gas?
- iii** Define molecular formula. Give an example.
- iv** Write down two uses of lipids.
- v** What are amino acids? Give general formula.
- vi** Define primary pollutants and give an example.

vii Why does acid rain damage buildings?**viii** Why does temperature decrease in troposphere?**Q.4 Write short answers to any FIVE (5) questions: 10**

- i** Why is the water molecule polar?
- ii** How does sodium zeolite soften the water?
- iii** What do you mean by fluorosis?
- iv** What do you mean by boiler scales? How are they removed?
- v** What do you mean by anode mud?
- vi** How is CO_2 prepared in the Solvay's process?
- vii** What happens when ammonium carbamate is heated with steam?
- viii** What role is played by pine oil in the froth flotation process?

PART – II**Note: Attempt any TWO questions.****Q.5(a)** Define an acid and a base according to Bronsted Lowry concept and justify with example. 5**(b)** Explain four general characteristics of organic compounds. 4**Q.6(a)** Explain five uses of acetylene. 5**(b)** Explain oligosaccharides. 4**Q.7(a)** How crude oil is refined? Explain two important fractions of petroleum along their usage. 5**(b)** Write the four effects of ozone depletion. 4