

UNSOLVED**Chemistry****Tenth, 2025
Lahore Board****Group – I****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** In an irreversible reaction, dynamic equilibrium:
- Ⓐ Never established Ⓑ Establishes readily
 Ⓒ Establishes before the completion of reaction
 Ⓓ Establishes after the completion of reaction
- 2** Which one of the following is a Lewis base :
- Ⓐ NH_3 Ⓑ BF_3
 Ⓒ H^+ Ⓓ AlCl_3
- 3** $\text{K}_4[\text{Fe}(\text{CN})_6]$ is a:
- Ⓐ Acidic salts Ⓑ Double salts
 Ⓒ Complex salts Ⓓ Mixed salts
- 4** Which salt is used for manufacture of explosives, plastics and other chemicals:
- Ⓐ $\text{N}_2\text{C/O}_3$ Ⓑ N_2SiO_3
 Ⓒ Na_2SO_4 Ⓓ Na_2CO_3
- 5** Anthracite contains the carbon content:
- Ⓐ 80% Ⓑ 70%
 Ⓒ 90% Ⓓ 60%
- 6** Substitution reaction is the characteristics of:
- Ⓐ Alkanes Ⓑ Alkenes
 Ⓒ Alkynes Ⓓ CO_2
- 7** Which one of the following vitamins is water soluble :
- Ⓐ Vitamin A Ⓑ Vitamin D
 Ⓒ Vitamin E Ⓓ Vitamin C
- 8** A good example of reducing sugar is:
- Ⓐ Glucose Ⓑ Maltose
 Ⓒ Sucrose Ⓓ Starch
- 9** Which one of these pollutants is not found in car exhaust fumes :
- Ⓐ CO Ⓑ O_3
 Ⓒ NO_2 Ⓓ SO_2
- 10** Which one of the following gases is used to destroy harmful bacteria in water:
- Ⓐ Iodine Ⓑ Chlorine
 Ⓒ Fluorine Ⓓ Bromine
- 11** The type of hepatitis which can be caused by contaminated water is :
- Ⓐ E Ⓑ C
 Ⓒ D Ⓓ B
- 12** Which one of the following is not fraction of residual oil:
- Ⓐ Paraffin wax Ⓑ Asphalt
 Ⓒ Fuel oil Ⓓ Petroleum coke

Chemistry	Tenth, 2025 Lahore Board	Group – I
Time: 1.45 hrs.	Subjective	Marks : 48

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

- i** Write two macroscopic characteristics of forward reaction.
- ii** Write the equilibrium constant expression for the reaction : $2\text{SO}_2 + \text{O}_2 \rightleftharpoons 2\text{SO}_3$
- iii** Define chemical equilibrium state.
- iv** Write any two physical properties of acid.
- v** Write reaction of acid with sulphides (Give equation).
- vi** Write formula of sodium hydroxide and potassium hydroxide.
- vii** How are alkyl halides reduced?
- viii** Define hydrocarbons. Give an example.

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

- i** Why and how carbon completes its octet?
- ii** Define destructive distillation.
- iii** What is an ester group? Write down the formula of ethyl acetate.
- iv** Write down the general formula of lipids.
- v** Write the names of two fatty acids with their formulae.
- vi** Define pollutants and contaminants.
- vii** How is the temperature of atmosphere maintained?
- viii** Write the health problems created by SO_2 .

Q.4 Write short answers to any FIVE (5) questions: 10

- i** Water dissolves sugar and alcohol, justify it.
- ii** Define soft water and hard water.
- iii** What is meant by leaching process?
- iv** Why are the non-polar compounds insoluble in water?
- v** How NaHCO_3 is converted to Na_2CO_3 ?
- vi** Describe froth flotation process.
- vii** How is roasting carried out in extraction of metal?
- viii** How is ammonia prepared for the manufacture of urea?

PART – II**Note: Attempt any TWO questions.****Q.5(a)** Define salts. Explain preparation of soluble salts. 5**(b)** Differentiate between homocyclic and alicyclic compounds. 4**Q.6(a)** Give five uses of ethylene. 5**(b)** Explain the sources and uses of protein. 4**Q.7(a)** Define refining of petroleum and explain fractional distillation of petroleum. 5**(b)** Give four effects of acid rain. 4