

Model Paper for Chemistry 10th (Fresh)

Total Time: 3 hrs

Total Marks: 65

SECTION – A

Time: 15 Minutes

Marks: 12

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

- i. Molecules of Chlorine do not decompose into atomic chlorine because Kc for this reaction $Cl_2 \rightleftharpoons 2Cl$ is
(a) Very Large (b) Very Small (c) Zero (d) One
- ii. NH_3 is
(a) Acid (b) Base (c) Salt (d) Buffer Solution
- iii. The Sum of P^H and P^{OH} for neutral Solution is
(a) 7 (b) 14 (c) 10 (d) 9
- iv. Dehydration of ethyl alcohol with $Con < H_2SO_4$ results in the formation of
(a) Ethane (b) Methane (c) Acetylene (d) Ethene
- v. The General formula for Alkenes is
(a) $C_nH_{2n}O_n$ (b) C_nH_{2n-1} (c) C_nH_{2n-2} (d) C_nH_{2n}
- vi. is a factor related to blood clotting.
(a) Vitamin A (b) Vitamin B (c) Vitamin C (d) Vitamin K
- vii. The major component of Stratosphere is
(a) Ozone (b) Nitrogen (c) Oxygen (d) Carbon
- viii. The Chemical Formula of Magnetic oxide is
(a) Fe_3O_4 (b) Fe_2O_4 (c) FeO (d) $Fe_2O_3 \cdot H_2O$
- ix. Chlorine acts as bleaching agent in the presence of
(a) HCL (b) H_2O (c) $NaOH$ (d) HNO_3
- x. Raw Materials used for manufacturing of urea are
(a) CO_2 and NH_3 (b) H_2 and NH_3 (c) HCL and NH_3 (d) None of These
- xi. The homologous have the same
(a) State (b) Color (c) Density (d) Chemical Properties
- xii. Fats and Oils are called
(a) Carbohydrates (d) Lipids (c) Proteins (d) Vitamins

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Note: Time allowed for Section B and Section C is 2 Hours and 45 Minutes.

SECTION "B"

Marks: 32

Q.2. Attempt any EIGHT parts. Each part carries FOUR marks.

- i. What is meant by equilibrium constant? Give its units.
- ii. What are strong acids and strong bases? Give examples.
- iii. Describe neutralization reaction with examples.
- iv. How alkenes are prepared?
- v. Write briefly the composition of Nucleic acids.
- vi. What are the physical properties of Ozone?
- vii. Water is a universal Solvent. Briefly explain?
- viii. How sodium carbonate is commercially prepared?
- ix. Describe briefly bonding in protein molecule.
- x. What is meant by Global warming?
- xi. What are the physical properties of Alkanes?

SECTION "C"

Marks: 21

Note: Attempt any Three questions. All questions carry equal marks.

- Q.3.
 - (a) What are Salts? Give its types.
 - (b) What are the various concepts about acids and bases?
- Q.4.
 - (a) Give general characteristics of organic compounds.
 - (b) Write any two methods for preparation of Alkynes.
- Q.5.
 - (a) Write balanced chemical equations for the chemical reaction of water with:
(i) Cl_2 (ii) F (iii) C (iv) NO_2
 - (b) What do you mean by hard water? How hardness of water is removed?
- Q.6.
 - (a) Describe classification of carbohydrates.
 - (b) Write short note on the importance of Atmosphere.