



Roll No. _____ to be filled in by the candidate.

(For all sessions)

Paper Code	8	4	8	7
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Chemistry (Objective Type)**RWP-21****Marks: 17****Time: 20 Minutes**

NOTE: Write answers to the questions on objective answer sheet provided. Four possible answers A, B, C & D to each question are given. Which answer you consider correct, fill the corresponding circle A, B, C or D given in front of each question with Marker or pen ink on the answer sheet provided.

- 1.1. Which of the following halogen is weak oxidizing agent?
(A) Cl_2 (B) F_2 (C) I_2 (D) Br_2
2. Which of the following is a typical transition element?
(A) Sc (B) Y (C) Ra (D) Co
3. The state of hybridization of carbon atom in methane is:
(A) sp^3 (B) sp^2 (C) sp (D) dsp^2
4. Formula of chloroform is:
(A) CCl_4 (B) CHCl_3 (C) CH_2Cl_2 (D) CH_3Cl
5. The electrophile in aromatic sulphonation is:
(A) H_2SO_4 (B) BF_3 (C) SO_3 (D) SO_3^+
6. Elimination bimolecular reaction involves:
(A) First order kinetics (B) Second order kinetics (C) Third order kinetics (D) zero order kinetics
7. Which compound shows hydrogen bonding?
(A) C_2H_6 (B) $\text{CH}_3-\text{O}-\text{CH}_3$ (C) $\text{C}_2\text{H}_5\text{Cl}$ (D) $\text{C}_2\text{H}_5\text{OH}$
8. Percentage of water in Formalin is:
(A) 52% (B) 8% (C) 40% (D) 60%
9. Which of the following will have the highest boiling point?
(A) Methanal (B) Ethanal (C) Propanal (D) 2-Hexanone
10. Which of the following ester gives apricot flavour?
(A) Amyl acetate (B) Benzyl acetate (C) Amyl butyrate (D) Otyl acetate
11. The solution of which acid is used for seasoning of food?
(A) Formic acid (B) Acetic acid (C) Benzoic acid (D) Butanoic acid
12. Through how many zones does the charge pass in a rotary kiln?
(A) 4 (B) 3 (C) 2 (D) 5
13. Keeping in view the size of atoms, which order is the correct one?
(A) $\text{Mg} > \text{Sr}$ (B) $\text{Ba} > \text{Mg}$ (C) $\text{Lu} > \text{Ce}$ (D) $\text{Cl} > \text{I}$
14. Which ion will have the maximum value of heat of hydration?
(A) Na^+ (B) Cs^+ (C) Ba^+ (D) Mg^{+2}
15. Which element belongs to group IVA of the periodic table?
(A) Ba (B) I (C) Pb (D) O
16. Which of the following catalyst is used in contact process:
(A) FeO_3 (B) V_2O_5 (C) SO_3 (D) Ag_2O
17. The anhydride of HClO_4 is:
(A) ClO_3 (B) ClO_2 (C) Cl_2O_5 (D) Cl_2O_7

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