

CUET 2026 June 6 Shift 1 Chemistry

Question Paper (Memory-Based)

Conducted by National Testing Agency (NTA)



1. The number of geometrical isomers possible for the complex $[Co(en)_2Cl_2]^+$ is:

- (A) 1
 - (B) 2
 - (C) 3
 - (D) 4
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2. Which of the following compounds exhibits the maximum hydrogen bonding in the liquid state?

- (A) CH_3OH
 - (B) HF
 - (C) H_2O
 - (D) NH_3
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3. The value of pH for a $10^{-8} M$ HCl solution at $25^\circ C$ is closest to:

- (A) 8
 - (B) 7
 - (C) 6.98
 - (D) 6
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4. The incorrect statement regarding d-block elements is:

- (A) Zinc is a transition element
 - (B) Most transition metals exhibit variable oxidation states
 - (C) Transition metals generally form coloured ions
 - (D) Transition metals frequently form complexes
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5. A first-order reaction has a half-life of 20 minutes. The time required for 87.5% completion of the reaction is:

- (A) 40 min
 - (B) 60 min
 - (C) 80 min
 - (D) 100 min
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6. Among the following species, which one has the highest bond order according to Molecular Orbital Theory?

- (A) O_2
 - (B) O_2^+
 - (C) O_2^-
 - (D) O_2^{2-}
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7. The major product obtained when phenol is treated with bromine water is:

- (A) Bromobenzene
 - (B) o-Bromophenol
 - (C) p-Bromophenol
 - (D) 2,4,6-Tribromophenol
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8. The standard electrode potentials are:

$$E_{Cu^{2+}/Cu}^{\circ} = +0.34V$$

$$E_{Zn^{2+}/Zn}^{\circ} = -0.76V$$

The standard emf of the Daniell cell is:

- (A) 0.42V
- (B) 0.76V

(C) 1.10V

(D) 1.52V

9. The number of stereoisomers possible for the compound $CH_3CH(OH)CH(OH)CH_3$ is:

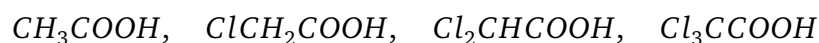
(A) 2

(B) 3

(C) 4

(D) 5

10. The correct order of acidic strength is:



(A) $CH_3COOH > ClCH_2COOH > Cl_2CHCOOH > Cl_3CCOOH$

(B) $ClCH_2COOH > CH_3COOH > Cl_2CHCOOH > Cl_3CCOOH$

(C) $Cl_3CCOOH > Cl_2CHCOOH > ClCH_2COOH > CH_3COOH$

(D) $Cl_2CHCOOH > Cl_3CCOOH > ClCH_2COOH > CH_3COOH$
