

CUET 2026 May 18 Shift 2 Chemistry

Question Paper (Memory-Based)

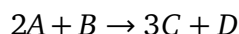
Conducted by National Testing Agency (NTA)



General Instructions

- (i) The examination will be conducted in Computer-Based Test (CBT) mode.
- (ii) Each question carries +5 marks for correct answer and -1 mark for wrong answer.
- (iii) The total number of questions are 50.
- (iv) Duration of the exam is 1 hour (60 minutes).

1. For the reaction



Which of the following does not express the reaction rate?

- (A) $-\frac{d[B]}{dt}$
- (B) $\frac{d[D]}{dt}$
- (C) $-\frac{1}{2} \frac{d[A]}{dt}$
- (D) $\frac{1}{3} \frac{d[C]}{dt}$

2. The oxidation potentials of A and B are

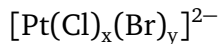
$$+2.37 \text{ V} \quad \text{and} \quad +1.66 \text{ V}$$

respectively. In chemical reactions

- (A) A will be replaced by B
- (B) A will replace B
- (C) A will not replace B

(D) A and B will not replace each other

3. For which value of x and y , the following square planar compound shows geometrical isomers



(A) 1, 3

(B) 3, 1

(C) 2, 2

(D) 1, 1

4. Match the columns

Column-I		Column-II	
(A)	$\text{CH}_2 = \text{CH} - \text{CH}_2\text{Cl}$	(p)	gem-Dichloride
(B)	$\text{CH}_2 = \text{CHX}$	(q)	Vinylic halide
(C)	CH_3CHCl_2	(r)	vic-Dichloride
(D)	$\text{CH}_2\text{ClCH}_2\text{Cl}$	(s)	Allylic halide

(A) $A \rightarrow (r)$, $B \rightarrow (q)$, $C \rightarrow (p)$, $D \rightarrow (s)$

(B) $A \rightarrow (q)$, $B \rightarrow (p)$, $C \rightarrow (s)$, $D \rightarrow (r)$

(C) $A \rightarrow (s)$, $B \rightarrow (q)$, $C \rightarrow (p)$, $D \rightarrow (r)$

(D) $A \rightarrow (r)$, $B \rightarrow (p)$, $C \rightarrow (s)$, $D \rightarrow (q)$

5. To prepare 3-ethylpentan-3-ol, the reagents needed are

(A) $\text{CH}_3\text{CH}_2\text{MgBr} + \text{CH}_3\text{COCH}_2\text{CH}_3$

(B) $\text{CH}_3\text{MgBr} + \text{CH}_3\text{CH}_2\text{CH}_2\text{COCH}_2\text{CH}_3$

(C) $\text{CH}_3\text{CH}_2\text{MgBr} + \text{CH}_3\text{CH}_2\text{COCH}_2\text{CH}_3$

(D) $\text{CH}_3\text{CH}_2\text{CH}_2\text{MgBr} + \text{CH}_3\text{COCH}_2\text{CH}_3$

6. Chromosomes are made from

- (A) proteins
 - (B) nucleic acids
 - (C) proteins and nucleic acids
 - (D) carbohydrates and nucleic acids
-

7. The electronic configuration of Cu(II) is



whereas that of Cu(I) is



Which of the following is correct?

- (A) Cu(II) is more stable
 - (B) Cu(I) is less stable
 - (C) Cu(I) and Cu(II) are equally stable
 - (D) Stability of Cu(I) and Cu(II) depends on nature of copper salts
-

8. On addition of small amount of $KMnO_4$ to concentrated H_2SO_4 , a green oily compound is obtained which is highly explosive in nature. Identify the compound from the following.

- (A) Mn_2O_7
 - (B) MnO_2
 - (C) $MnSO_4$
 - (D) Mn_2O_3
-

9. Which of the following oxidation state is common for all lanthanoids?

- (A) +2
 - (B) +3
 - (C) +4
 - (D) +5
-

10. The magnetic nature of elements depends on the presence of unpaired electrons. Identify the configuration of transition element, which shows highest magnetic moment.

(A) $3d^7$

(B) $3d^5$

(C) $3d^8$

(D) $3d^2$
