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

$$2A + B \rightarrow 3C + D$$

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) $\frac{1}{3}\frac{d[C]}{dt}$

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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

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

$$[Pt(Cl)_x(Br)_y]^{2-}$$

(A) $1, 3$

(B) $3, 1$

(C) $2, 2$

(D) $1, 1$

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4. Match the columns

Column-I		**Column-II**	
(A)	$CH_2 = CH - CH_2Cl$	(p)	gem-Dichloride
(B)	$CH_2 = CHX$	(q)	Vinylic halide
(C)	CH_3CHCl_2	(r)	vic-Dichloride
(D)	CH_2ClCH_2Cl	(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) $A \rightarrow (r),\ B \rightarrow (p),\ C \rightarrow (s),\ D \rightarrow (q)$

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

(A) $CH_3CH_2MgBr + CH_3COCH_2CH_3$

(B) $CH_3MgBr + CH_3CH_2CH_2COCH_2CH_3$

(C) $CH_3CH_2MgBr + CH_3CH_2COCH_2CH_3$

(D) $CH_3CH_2CH_2MgBr + CH_3COCH_2CH_3$

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6. Chromosomes are made from

(A) proteins

(B) nucleic acids

(C) proteins and nucleic acids

(D) carbohydrates and nucleic acids

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7. The electronic configuration of Cu(II) **is**

$$3d^9$$

whereas that of Cu(I) **is**

$$3d^{10}$$

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

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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

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

(A) +2

(B) +3

(C) +4

(D) +5

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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) $3d^2$
