

CUET 2026 Chemistry May 25 Shift 1

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. Which of the following compounds shows acidic character?

- (A) Phenol
- (B) Ethanol
- (C) Ether
- (D) Ethene

2. Arrange the following in increasing order of basic strength:

- (A) Aniline < Ammonia < Ethylamine
- (B) Ammonia < Aniline < Ethylamine
- (C) Ethylamine < Ammonia < Aniline
- (D) Aniline < Ethylamine < Ammonia

3. Identify the correct IUPAC name of the compound: $\text{CH}_3\text{-CH}_2\text{-CHO}$

- (A) Propanone
 - (B) Propanal
 - (C) Propanoic acid
 - (D) Propene
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4. Which reagent converts an aldehyde into a carboxylic acid?

- (A) LiAlH_4
 - (B) H_2/Ni
 - (C) KMnO_4
 - (D) NaBH_4
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5. Match the complexes with their magnetic nature:

Complex	Nature
(A) $[\text{Fe}(\text{CN})_6]^{4-}$	(I) Paramagnetic
(B) $[\text{CoF}_6]^{3-}$	(II) Diamagnetic

- (A) A-I, B-II
 - (B) A-II, B-I
 - (C) A-II, B-II
 - (D) A-I, B-I
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6. Which of the following belongs to the d-block elements?

- (A) Sodium
- (B) Calcium
- (C) Iron
- (D) Helium

7. Lanthanoids are known for:

- (A) Variable oxidation states only
 - (B) Formation of coloured ions
 - (C) Absence of magnetic properties
 - (D) Non-metallic character
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8. Which of the following is an application of coordination compounds?

- (A) Manufacture of soap only
 - (B) Extraction of metals
 - (C) Production of plastics only
 - (D) Preparation of fertilizers only
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9. Cisplatin is used in:

- (A) Water purification
 - (B) Fertilizer industry
 - (C) Cancer treatment
 - (D) Food preservation
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10. Which of the following compounds will show maximum acidic strength?

- (A) CH_3OH
 - (B) $\text{C}_2\text{H}_5\text{OH}$
 - (C) Phenol
 - (D) Ethane
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11. In the periodic table, actinoids belong to:

- (A) s-block
 - (B) p-block
 - (C) d-block
 - (D) f-block
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12. The hybridization and geometry of $[\text{Ni}(\text{CN})_4]^{2-}$ are respectively:

- (A) sp^3 , tetrahedral
 - (B) dsp^2 , square planar
 - (C) d^2sp^3 , octahedral
 - (D) sp^2 , trigonal planar
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