

CUET 2026 May 21 Shift 1 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. Arrange the following compounds in increasing order of acidic strength:

Phenol, Water, Propan-1-ol, Propan-2-ol

- (A) Water < Propan-2-ol < Propan-1-ol < Phenol
- (B) Propan-2-ol < Propan-1-ol < Water < Phenol
- (C) Propan-1-ol < Propan-2-ol < Water < Phenol
- (D) Phenol < Water < Propan-1-ol < Propan-2-ol

2. Among the following amines, the strongest base in aqueous solution is:

NH_3 , CH_3NH_2 , $(\text{CH}_3)_2\text{NH}$, $(\text{CH}_3)_3\text{N}$

- (A) NH_3
- (B) $(\text{CH}_3)_3\text{N}$
- (C) $(\text{CH}_3)_2\text{NH}$
- (D) CH_3NH_2

3. Lucas reagent gives immediate turbidity with:

- (A) Ethanol
 - (B) Propan-1-ol
 - (C) Propan-2-ol
 - (D) tert-Butyl alcohol
-

4. Which of the following compounds has the highest boiling point?

- (A) Propane
 - (B) Propanal
 - (C) Propan-1-ol
 - (D) Dimethyl ether
-

5. Among the following, the compound having the lowest value of pK_a is:

- (A) Ethanol
 - (B) Water
 - (C) Phenol
 - (D) Propan-2-ol
-

6. Which of the following compounds gives a positive Hinsberg test and forms a soluble sulphonamide?

- (A) Aniline
 - (B) Dimethylamine
 - (C) Trimethylamine
 - (D) Triphenylamine
-

7. The compound which is most basic in gaseous phase is:

- (A) Ammonia
- (B) Methylamine

- (C) Dimethylamine
 - (D) Trimethylamine
-

8. Which of the following compounds can show metamerism?

- (A) Propanal
 - (B) Propanone
 - (C) Methoxyethane
 - (D) Ethanol
-

9. The half-life of a first order reaction is 1386 s. The rate constant k is:

- (A) $5 \times 10^{-4} \text{ s}^{-1}$
 - (B) $2 \times 10^{-4} \text{ s}^{-1}$
 - (C) $1 \times 10^{-3} \text{ s}^{-1}$
 - (D) $4 \times 10^{-3} \text{ s}^{-1}$
-

10. Which of the following biomolecules acts as the genetic material in most organisms?

- (A) Protein
 - (B) DNA
 - (C) Lipid
 - (D) Polysaccharide
-