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CHEMISTRY  
MCQ PRACTICE SERIES

Daily Questions for Competitive Exam - 09 Jan 2026 to 15 Jan 2026 MCQs

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## NEET Chemistry MCQs – Classification of Elements & Periodicity - 15 Jan 2026

Periodicity Medium

1. Which of the following properties generally **increases from left to right** across a period in the periodic table?

- A) Atomic radius
- B) Metallic character
- C) Ionization enthalpy
- D) Reducing power

Periodicity Medium

2. Which element has the **maximum electron gain enthalpy**?

- A) Fluorine
- B) Chlorine
- C) Oxygen
- D) Nitrogen

Periodic Table Medium

3. The correct order of increasing atomic radius among the following elements is:  
O, F, N, C

- A)  $F < O < N < C$
- B)  $C < N < O < F$
- C)  $O < F < N < C$
- D)  $N < O < F < C$

Ionization Enthalpy Medium

4. The first ionization enthalpy of oxygen is less than that of nitrogen because:

- A) Oxygen has higher nuclear charge
- B) Oxygen has a larger atomic size
- C) Oxygen has paired electrons in p-orbitals
- D) Nitrogen has lower electronegativity

Valency Medium

5. Which of the following elements shows **variable oxidation states** most commonly?

- A) Sodium
- B) Magnesium

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- C) Aluminium
- D) Iron

Answer Key

1. C
2. B
3. A
4. C
5. D

Key Notes – Classification of Elements & Periodicity

- Atomic radius decreases across a period and increases down a group.
- Ionization enthalpy increases from left to right across a period.
- Chlorine has higher electron gain enthalpy than fluorine due to less repulsion.
- Extra stability of half-filled orbitals explains anomalies (N vs O).
- Transition metals commonly show variable oxidation states.

**NEET Chemistry MCQs – Structure of Atom - 14 Jan 2026**

Structure of Atom Medium

1. The maximum number of electrons that can be accommodated in a shell with principal quantum number  $n = 4$  is:

- A) 16
- B) 18
- C) 32
- D) 50

Structure of Atom Medium

2. Which of the following sets of quantum numbers is **not allowed**?

- A)  $n = 3, l = 2, m = -2, s = +1/2$
- B)  $n = 2, l = 1, m = 0, s = -1/2$
- C)  $n = 3, l = 3, m = 1, s = +1/2$
- D)  $n = 1, l = 0, m = 0, s = +1/2$

Structure of Atom Medium

3. The wavelength of radiation associated with an electron moving in the first orbit of hydrogen atom is given by:

- A) de Broglie equation
- B) Heisenberg uncertainty principle
- C) Pauli exclusion principle

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- D) Hund's rule

Structure of Atom Medium

4. Which transition in the hydrogen atom corresponds to the emission of radiation of **maximum wavelength**?

- A)  $n = 4 \rightarrow n = 3$
- B)  $n = 3 \rightarrow n = 2$
- C)  $n = 2 \rightarrow n = 1$
- D)  $n = 5 \rightarrow n = 1$

Structure of Atom Medium

5. Which of the following orbitals has a dumbbell shape?

- A) s-orbital
- B) p-orbital
- C) d-orbital
- D) f-orbital

Answer Key

1. C
2. C
3. A
4. A
5. B

Key Notes – Structure of Atom

- Maximum electrons in a shell =  $2n^2$
- Azimuthal quantum number ( $l$ ) ranges from 0 to  $(n - 1)$
- de Broglie equation:  $\lambda = h / mv$
- Lower energy transition  $\rightarrow$  higher wavelength
- s-orbitals are spherical, p-orbitals are dumbbell shaped

## NEET Chemistry MCQs – Some Basic Concepts of Chemistry - 13 Jan 2026

Some Basic Concepts of Chemistry Medium

1. How many significant figures are present in the measurement 0.004560?

- A) 3
- B) 4
- C) 5
- D) 6

Some Basic Concepts of Chemistry Medium

2. The number of atoms present in 0.1 mole of sodium is approximately:

- A)  $6.02 \times 10^{21}$
- B)  $6.02 \times 10^{22}$
- C)  $6.02 \times 10^{23}$
- D)  $3.01 \times 10^{23}$

Some Basic Concepts of Chemistry Medium

3. What is the mass of one mole of electrons?

(Mass of one electron =  $9.1 \times 10^{-28}$  g)

- A) 0.0055 g
- B) 0.00055 g
- C) 5.5 g
- D) 55 g

Some Basic Concepts of Chemistry Medium

4. A compound contains 40% carbon, 6.7% hydrogen and 53.3% oxygen by mass. The empirical formula of the compound is:

- A)  $\text{CH}_2\text{O}$
- B)  $\text{C}_2\text{H}_4\text{O}$
- C)  $\text{CHO}$
- D)  $\text{C}_2\text{H}_2\text{O}$

Some Basic Concepts of Chemistry Medium

5. Which of the following quantities has the same numerical value in SI and CGS systems?

- A) Length
- B) Mass
- C) Temperature
- D) Time

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Answer Key

1. B
2. B
3. A
4. A
5. D

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## NEET Chemistry MCQs – Daily Practice (Medium Level) 12 Jan 2026

### Physical Chemistry Medium

1. The number of moles of  $\text{KMnO}_4$  required to oxidize 1 mole of  $\text{Fe}^{2+}$  ions in acidic medium is:

- A) 1/5
- B) 1/3
- C) 1/2
- D) 1

### Physical Chemistry Medium

2. For a first-order reaction, if the rate constant is doubled, the half-life of the reaction will:

- A) Remain unchanged
- B) Become half
- C) Become double
- D) Become four times

### Organic Chemistry Medium

3. Which of the following compounds undergoes **SN1 reaction** most readily?

- A)  $\text{CH}_3\text{Cl}$
- B)  $\text{C}_2\text{H}_5\text{Cl}$
- C)  $(\text{CH}_3)_3\text{CCl}$
- D)  $\text{C}_6\text{H}_5\text{CH}_2\text{Cl}$

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Organic Chemistry Medium

4. Which of the following reagents converts an aldehyde directly into a primary alcohol?

- A) PCC
- B)  $\text{KMnO}_4$
- C)  $\text{NaBH}_4$
- D) Tollens' reagent

Inorganic Chemistry Medium

5. Which of the following species is **paramagnetic**?

- A)  $\text{Zn}^{2+}$
- B)  $\text{Cu}^+$
- C)  $\text{Fe}^{3+}$
- D)  $\text{Ni}^{2+}$  (low spin)

Answer Key

1. A
2. B
3. C
4. C
5. C

**NEET Chemistry MCQs – Today's Practice 11 Jan 2026**

Physical Chemistry Medium

1. At  $25^\circ\text{C}$ , the vapour pressure of pure water is 23.8 mm Hg. When a non-volatile solute is added, the vapour pressure becomes 22.6 mm Hg. The mole fraction of the solute in the solution is:

- A) 0.050
- B) 0.052
- C) 0.048
- D) 0.045

Physical Chemistry Easy

2. For a reaction, the half-life is independent of the initial concentration of the reactant. The order of the reaction is:

- A) Zero order
- B) First order
- C) Second order

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- D) Pseudo-first order

Organic Chemistry Medium

3. Which of the following reactions proceeds via a free radical mechanism?

- A) Addition of HBr to propene (without peroxide)
- B) Nitration of benzene
- C) Chlorination of methane in sunlight
- D) Hydration of ethene

Organic Chemistry Tricky

4. Which of the following compounds gives a positive iodoform test?

- A) Propanal
- B) Acetophenone
- C) Benzaldehyde
- D) Methanol

Inorganic Chemistry Medium

5. The coordination number and geometry of the complex  $[\text{Ni}(\text{CO})_4]$  are respectively:

- A) 4, square planar
- B) 4, tetrahedral
- C) 6, octahedral
- D) 2, linear

Answer Key

1. C
2. B
3. C
4. B
5. B

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## NEET Chemistry MCQs – Today's Practice Questions 10 Jan 2026

### Physical Chemistry Medium

1. A sample contains  $3.01 \times 10^{23}$  molecules of a gas X. The mass of the sample is 16 g. The molecular mass of gas X is:

- A)  $16 \text{ g mol}^{-1}$
- B)  $24 \text{ g mol}^{-1}$
- C)  $32 \text{ g mol}^{-1}$
- D)  $48 \text{ g mol}^{-1}$

### Physical Chemistry Easy

2. For a spontaneous process at constant temperature and pressure, which of the following conditions must be satisfied?

- A)  $\Delta H < 0$  and  $\Delta S < 0$
- B)  $\Delta G < 0$
- C)  $\Delta G > 0$
- D)  $\Delta H = 0$

### Organic Chemistry Medium

3. Which of the following carbocations is the most stable?

- A)  $\text{CH}_3^+$
- B)  $\text{CH}_3\text{-CH}_2^+$
- C)  $(\text{CH}_3)_2\text{CH}^+$
- D)  $(\text{CH}_3)_3\text{C}^+$

### Organic Chemistry Tricky

4. When propene reacts with HBr in the presence of peroxide, the major product formed is:

- A) 1-bromopropane
- B) 2-bromopropane
- C) 1,2-dibromopropane
- D) 2,3-dibromopropane

### Inorganic Chemistry Easy

5. What is the oxidation state of cobalt in the complex  $[\text{Co}(\text{NH}_3)_6]\text{Cl}_3$ ?

- A) +1
- B) +2
- C) +3

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- D) 0

Answer Key

1. C
2. B
3. D
4. A
5. C

## Daily Chemistry MCQs – NEET / MHT-CET (9 Jan 2026)

### Physical Chemistry Medium

1. How many moles of oxygen atoms are present in 11.2 L of carbon dioxide gas at STP?

- A) 0.25 mol
- B) 0.5 mol
- C) 1 mol
- D) 2 mol

### Organic Chemistry Easy

2. Which reagent is used to distinguish between aldehydes and ketones?

- A) Fehling's solution
- B) Tollens' reagent
- C) Benedict's solution
- D) Schiff's reagent

### Inorganic Chemistry Medium

3. Which of the following has the highest lattice energy?

- A) NaCl
- B) KCl
- C) MgO
- D) CaO

### Physical Chemistry Tricky

4. For a first-order reaction, the time required to complete 75% of the reaction is:

- A)  $t_{1/2}$
- B)  $2t_{1/2}$
- C)  $3t_{1/2}$
- D)  $t_{1/2} / 2$

### Organic Chemistry Medium

5. Which of the following compounds shows geometrical isomerism?

- A) Propene
- B) But-2-ene
- C) Ethyne
- D) Propane

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Answer Key

1. C
2. B
3. C
4. B
5. B