



MARCH 22, 2026

CHEMISTRY  
MCQ PRACTICE SERIES

Daily Questions for Competitive Exam - 01 Feb 2026 to 15 Feb 2026 MCQs

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## Revision Cycle – Class 12 Chemistry MCQs 15 Feb 2026

### Chapter: Solutions

1. Which law states that the partial pressure of a gas is directly proportional to its mole fraction in solution?

- A) Raoult's law
- B) Henry's law
- C) Dalton's law
- D) Boyle's law

2. The colligative properties of a solution depend on:

- A) Nature of solute
- B) Nature of solvent
- C) Number of solute particles
- D) Chemical formula of solute

3. Which of the following will show the highest elevation in boiling point for the same concentration?

- A) Glucose
- B) NaCl
- C) CaCl<sub>2</sub>
- D) Urea

4. Osmotic pressure of a solution is measured using:

- A) Barometer
- B) Manometer
- C) Osmometer
- D) Calorimeter

5. For a dilute solution, the relation between osmotic pressure ( $\pi$ ) and molarity (M) is:

- A)  $\pi = MRT$
- B)  $\pi = RT/M$
- C)  $\pi = M/RT$
- D)  $\pi = RT$

#### Answer Key

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

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Expert Tip – Solutions

Remember this exam shortcut: **More particles** → **more effect**. Colligative properties depend only on number of particles, not their type. For electrolytes, always multiply by van't Hoff factor. Osmotic pressure follows  $\pi = MRT$ . These rules help solve most **chem mcq** from Solutions in NEET, JEE and MHT-CET quickly.

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**Revision Cycle – Class 12 Chemistry MCQs - 14 Feb 2026**  
**Chapter: Solid State**

- Which of the following is an example of an amorphous solid?
  - A) Sodium chloride
  - B) Quartz
  - C) Glass
  - D) Diamond
- The coordination number of atoms in a face-centred cubic (FCC) lattice is:
  - A) 4
  - B) 6
  - C) 8
  - D) 12
- Which type of crystal conducts electricity in molten state but not in solid state?
  - A) Molecular crystal
  - B) Ionic crystal
  - C) Covalent crystal
  - D) Metallic crystal
- The number of atoms present per unit cell in a body-centred cubic (BCC) lattice is:
  - A) 1
  - B) 2
  - C) 4
  - D) 6
- Which defect increases the electrical conductivity of a semiconductor?
  - A) Frenkel defect
  - B) Schottky defect
  - C) Metal excess defect
  - D) Stoichiometric defect

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Answer Key

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

Expert Tip – Solid State

Remember these easy exam rules: **Amorphous = no fixed shape. FCC → 12 neighbours. BCC → 2 atoms per unit cell.** Ionic solids conduct only when molten. Metal excess defects increase conductivity. These shortcuts help crack most **chem mcq** from Solid State in NEET, JEE and MHT-CET quickly.

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**Revision Cycle – Class 11 Chemistry MCQs - 13 Feb 2026**  
**Chapter: Environmental Chemistry**

1. Which gas is mainly responsible for acid rain?

- A) Carbon monoxide
- B) Sulphur dioxide
- C) Methane
- D) Ammonia

2. Which layer of the atmosphere contains the ozone layer?

- A) Troposphere
- B) Stratosphere
- C) Mesosphere
- D) Thermosphere

3. Photochemical smog is mainly formed due to reactions involving:

- A) SO<sub>2</sub> and CO
- B) NO<sub>x</sub> and hydrocarbons
- C) CO<sub>2</sub> and methane
- D) Ozone and oxygen

4. Which chemical compound is mainly responsible for depletion of the ozone layer?

- A) Carbon dioxide
- B) Nitrogen dioxide
- C) Chlorofluorocarbons
- D) Sulphur dioxide

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5. Which of the following is a secondary air pollutant?

- A) Carbon monoxide
- B) Sulphur dioxide
- C) Ozone
- D) Nitric oxide

Answer Key

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

Expert Tip – Environmental Chemistry

Use this simple exam memory set: **Acid rain** → **SO<sub>2</sub>**. **Ozone layer** → **Stratosphere**. **Smog** → **NO<sub>x</sub> + hydrocarbons**. **Ozone hole** → **CFCs**. This chapter gives direct NCERT-based **chem mcq**, so revise facts once and score easy marks in NEET, JEE and MHT-CET.

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**Revision Cycle – Class 11 Chemistry MCQs - 12 Feb 2026**  
**Chapter: Some p-Block Elements**

1. Which group 15 element shows maximum tendency to form multiple bonds?

- A) Nitrogen
- B) Phosphorus
- C) Arsenic
- D) Antimony

2. Which oxide of nitrogen is neutral in nature?

- A) N<sub>2</sub>O
- B) NO
- C) NO<sub>2</sub>
- D) N<sub>2</sub>O<sub>5</sub>

3. Which allotrope of phosphorus is the most reactive?

- A) White phosphorus
- B) Red phosphorus
- C) Black phosphorus
- D) Violet phosphorus

4. Which halogen has the highest electronegativity?

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- A) Chlorine
- B) Bromine
- C) Fluorine
- D) Iodine

5. Which acid is formed when nitrogen dioxide reacts with water?

- A) Nitric acid only
- B) Nitrous acid only
- C) Both nitric and nitrous acids
- D) No acid is formed

Answer Key

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

Expert Tip – Some p-Block Elements

Remember these quick exam rules: **Nitrogen forms multiple bonds** due to small size. **White phosphorus is the most reactive. Fluorine is the most electronegative element.** Nitrogen dioxide gives a mix of nitric and nitrous acids with water. These points help solve most **chem mcq** from p-Block quickly in JEE, NEET and MHT-CET.

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## Revision Cycle – Class 11 Chemistry MCQs - 11 Feb 2026

### Chapter: The s-Block Elements

1. Which alkali metal has the highest hydration enthalpy?

- A) Sodium
- B) Potassium
- C) Lithium
- D) Cesium

2. Which alkaline earth metal sulphate is insoluble in water?

- A)  $\text{MgSO}_4$
- B)  $\text{CaSO}_4$
- C)  $\text{SrSO}_4$
- D)  $\text{BaSO}_4$

3. The anomalous behaviour of lithium is mainly due to:

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- A) High atomic mass
- B) Large atomic size
- C) Small size and high polarising power
- D) Presence of d-orbitals

4. Which compound is used in the Solvay process?

- A) NaOH
- B) NaCl
- C) NaHCO<sub>3</sub>
- D) Na<sub>2</sub>SO<sub>4</sub>

5. Which alkaline earth metal shows maximum flame colour intensity?

- A) Magnesium
- B) Calcium
- C) Strontium
- D) Barium

Answer Key

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

Expert Tip – s-Block Elements

Use this quick exam memory rule: **Small size** → **high hydration** (Lithium). **Down the group** → **solubility of sulphates decreases**. Lithium behaves differently due to high polarising power. Remember these points and most **chem mcq** from s-Block become easy in JEE, NEET and MHT-CET.

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**Revision Cycle – Class 11 Chemistry MCQs - 10 Feb 2026**  
**Chapter: Hydrogen**

1. Which type of hydride is formed by alkali metals?
  - A) Covalent hydride
  - B) Ionic (saline) hydride
  - C) Interstitial hydride
  - D) Polymer hydride
  
2. Which metal is widely used to store hydrogen due to interstitial hydride formation?
  - A) Sodium
  - B) Magnesium
  - C) Palladium
  - D) Calcium
  
3. Heavy water (D<sub>2</sub>O) is mainly used as:
  - A) Oxidising agent
  - B) Reducing agent
  - C) Moderator in nuclear reactors
  - D) Catalyst
  
4. The oxidation state of oxygen in hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) is:
  - A) -2
  - B) -1
  - C) 0
  - D) +1
  
5. Which property makes hydrogen peroxide a good bleaching agent?
  - A) High acidity
  - B) Strong reducing nature
  - C) Strong oxidising nature
  - D) High density

Answer Key

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

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Expert Tip – Hydrogen

Remember this quick exam rule: **Alkali metals** → **ionic hydrides**. **Transition metals** → **interstitial hydrides**. Oxygen in  $\text{H}_2\text{O}_2$  always has oxidation state  $-1$ . Hydrogen peroxide bleaches due to its oxidising power. These points help solve most **chem mcq** from Hydrogen in JEE, NEET and MHT-CET without confusion.

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## Revision Cycle – Class 11 Chemistry MCQs - 09 Feb 2026

### Chapter: Redox Reactions

1. In the reaction  $\text{Zn} + \text{CuSO}_4 \rightarrow \text{ZnSO}_4 + \text{Cu}$ , which species gets reduced?
  - A) Zn
  - B)  $\text{Zn}^{2+}$
  - C)  $\text{Cu}^{2+}$
  - D)  $\text{SO}_4^{2-}$
  
2. The oxidation number of sulphur in  $\text{H}_2\text{SO}_4$  is:
  - A) +4
  - B) +5
  - C) +6
  - D) +2
  
3. Which of the following is a disproportionation reaction?
  - A)  $\text{Zn} + 2\text{HCl} \rightarrow \text{ZnCl}_2 + \text{H}_2$
  - B)  $2\text{H}_2\text{O} \rightarrow 2\text{H}_2 + \text{O}_2$
  - C)  $\text{Cl}_2 + 2\text{OH}^- \rightarrow \text{Cl}^- + \text{ClO}^- + \text{H}_2\text{O}$
  - D)  $\text{Fe} + \text{CuSO}_4 \rightarrow \text{FeSO}_4 + \text{Cu}$
  
4. Which substance acts as an oxidising agent in a redox reaction?
  - A) Substance that loses electrons
  - B) Substance that gains electrons
  - C) Substance that releases heat
  - D) Substance that forms a precipitate
  
5. In acidic medium, how many electrons are transferred per molecule when  $\text{MnO}_4^-$  changes to  $\text{Mn}^{2+}$ ?
  - A) 3
  - B) 4
  - C) 5
  - D) 7

#### Answer Key

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

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Expert Tip – Redox Reactions

Use this simple exam rule: **Oxidation = loss of electrons, Reduction = gain of electrons.** Oxidising agent always gets reduced. In acidic medium, remember:  $\text{MnO}_4^- \rightarrow \text{Mn}^{2+}$  **needs 5 electrons.** These shortcuts help crack most **chem mcq** from Redox in JEE, NEET and MHT-CET.

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**Revision Cycle – Class 11 Chemistry MCQs - 08 Feb 2026**  
**Chapter: Equilibrium**

- For a reaction at equilibrium, which statement is correct?
  - A) Reaction stops completely
  - B) Rate of forward reaction is zero
  - C) Rate of forward and backward reactions are equal
  - D) Concentration of reactants becomes zero
- For the reaction  $\text{N}_2(\text{g}) + 3\text{H}_2(\text{g}) \rightleftharpoons 2\text{NH}_3(\text{g})$ , decreasing pressure will shift the equilibrium:
  - A) Towards ammonia
  - B) Towards nitrogen and hydrogen
  - C) No effect on equilibrium
  - D) Only increases rate of reaction
- Which of the following changes does NOT affect the value of equilibrium constant (K)?
  - A) Change in temperature
  - B) Addition of catalyst
  - C) Change in concentration
  - D) Change in pressure
- If the value of  $K_c$  for a reaction is very large, it means:
  - A) Reactants are favoured
  - B) Products are favoured
  - C) Reaction is very slow
  - D) Reaction never reaches equilibrium
- In acidic medium, pH of a solution is 2. The concentration of  $\text{H}^+$  ions is:
  - A)  $10^{-2} \text{ mol L}^{-1}$
  - B)  $10^{-7} \text{ mol L}^{-1}$
  - C)  $2 \text{ mol L}^{-1}$
  - D)  $0.02 \text{ mol L}^{-1}$

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Answer Key

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

Expert Tip – Equilibrium

Remember this exam rule: **Equilibrium = dynamic**, not static. Only **temperature** changes the value of  $K$ . Pressure shifts equilibrium only when gaseous moles change. For pH, use the shortcut:  $\text{pH} = -\log[\text{H}^+]$ . These rules solve most **chem mcq** from Equilibrium in JEE, NEET and MHT-CET.

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**Revision Cycle – Class 11 Chemistry MCQs - 07 Feb 2026**  
**Chapter: Thermodynamics**

1. Which of the following is a state function?

- A) Work
- B) Heat
- C) Enthalpy
- D) Path length

2. For an endothermic reaction carried out at constant pressure, which condition is correct?

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

3. The relation between enthalpy change and internal energy change for a gaseous reaction is:

- A)  $\Delta H = \Delta U - \Delta nRT$
- B)  $\Delta H = \Delta U + \Delta nRT$
- C)  $\Delta H = \Delta U \times \Delta nRT$
- D)  $\Delta H = \Delta U / \Delta nRT$

4. A reaction is spontaneous at all temperatures if:

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

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5. The efficiency of a reversible heat engine depends only on:

- A) Nature of gas used
- B) Amount of heat supplied
- C) Temperatures of source and sink
- D) Time taken for the cycle

Answer Key

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

Expert Tip – Thermodynamics

Remember this exam shortcut:  $\Delta G = \Delta H - T\Delta S$ . If  $\Delta H$  is **negative** and  $\Delta S$  is **positive**, the reaction is spontaneous at all temperatures. State functions depend only on initial and final state, not the path. These rules solve most **chem mcq** from Thermodynamics in JEE, NEET and MHT-CET.

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**Revision Cycle – Class 11 Chemistry MCQs - 06 Feb 2026**  
**Chapter: States of Matter (Gases & Liquids)**

1. Which gas shows maximum deviation from ideal gas behaviour at low temperature?

- A) H<sub>2</sub>
- B) He
- C) CO<sub>2</sub>
- D) N<sub>2</sub>

2. The value of compressibility factor (Z) for an ideal gas is:

- A) 0
- B) Less than 1
- C) Greater than 1
- D) Equal to 1

3. Which factor mainly causes real gases to deviate from ideal behaviour?

- A) Large molecular mass
- B) Intermolecular attraction
- C) High temperature
- D) Low pressure

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4. At constant temperature, if pressure of a gas is reduced to half, the volume of the gas becomes:

- A) Half
- B) Double
- C) Four times
- D) Same

5. Which liquid has the highest surface tension at room temperature?

- A) Ethanol
- B) Benzene
- C) Water
- D) Acetone

Answer Key

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

Expert Tip – States of Matter

Use this simple exam rule: **Low temperature + high pressure = maximum deviation**. Ideal gas means  $Z = 1$ . Strong attraction increases deviation and surface tension. Remember these three points and most **chem mcq** from this chapter become easy in JEE, NEET and MHT-CET.

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**Revision Cycle – Class 11 Chemistry MCQs - 05 Feb 2026**  
**Chapter: Chemical Bonding & Molecular Structure**

1. Which molecule has zero dipole moment?

- A)  $\text{NH}_3$
- B)  $\text{H}_2\text{O}$
- C)  $\text{CO}_2$
- D)  $\text{SO}_2$

2. The shape of the ammonia ( $\text{NH}_3$ ) molecule is:

- A) Tetrahedral
- B) Trigonal planar
- C) Trigonal pyramidal
- D) Linear

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3. Which type of hybridisation is present in carbon dioxide (CO<sub>2</sub>)?

- A) sp
- B) sp<sup>2</sup>
- C) sp<sup>3</sup>
- D) dsp<sup>2</sup>

4. Which bond is the strongest among the following?

- A) Single bond
- B) Double bond
- C) Triple bond
- D) Hydrogen bond

5. According to VSEPR theory, lone pair–lone pair repulsion is:

- A) Less than bond pair–bond pair
- B) Equal to bond pair–bond pair
- C) Greater than bond pair–bond pair
- D) Negligible

Answer Key

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

Expert Tip – Chemical Bonding

Remember this exam rule: **Lone pair repulsion > Bond pair repulsion**. Shape depends on electron pairs, not atoms. Symmetrical molecules like CO<sub>2</sub> have zero dipole moment. If you fix shape first, most **chem mcq** from this chapter become easy in JEE, NEET and MHT-CET.

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## Revision Cycle – Class 11 Chemistry MCQs - 04 Feb 2026

### Chapter: Classification of Elements & Periodicity

1. Which element has the highest first ionisation energy among the following?

- A) Beryllium
- B) Boron
- C) Carbon
- D) Nitrogen

2. Atomic radius generally decreases across a period because:

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- A) Number of shells decreases
  - B) Nuclear charge increases
  - C) Shielding effect increases
  - D) Electronegativity decreases
3. Which element shows the most negative electron gain enthalpy?
- A) Fluorine
  - B) Chlorine
  - C) Oxygen
  - D) Sulphur
4. The basic character of oxides increases in which direction of the periodic table?
- A) Left to right in a period
  - B) Right to left in a period
  - C) Top to bottom in a group
  - D) Both B and C
5. Which of the following elements shows variable oxidation states most commonly?
- A) Sodium
  - B) Magnesium
  - C) Aluminium
  - D) Iron

Answer Key

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

Expert Tip – Periodicity (Easy Memory)

Use this simple exam rule: **Across period** → size ↓, energy ↑. **Down group** → size ↑, energy ↓. Chlorine beats fluorine in electron gain due to less crowding. Transition metals show variable oxidation states. These shortcuts help solve most **chem mcq** in JEE, NEET and MHT-CET quickly.

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## Revision Cycle – Class 11 Chemistry MCQs - 03 Feb 2026

### Chapter: Structure of Atom

- The maximum number of electrons that can be present in a subshell with  $l = 2$  is:
  - A) 2
  - B) 6
  - C) 10
  - D) 14
- Which of the following sets of quantum numbers represents a valid electron?
  - A)  $n = 2, l = 2, m = 0, s = +1/2$
  - B)  $n = 3, l = 1, m = -1, s = -1/2$
  - C)  $n = 1, l = 1, m = 0, s = +1/2$
  - D)  $n = 2, l = 0, m = 1, s = -1/2$
- The number of orbitals present in the third shell ( $n = 3$ ) is:
  - A) 3
  - B) 6
  - C) 9
  - D) 18
- Which transition in a hydrogen atom will produce radiation of the highest energy?
  - A)  $n = 2 \rightarrow n = 1$
  - B)  $n = 3 \rightarrow n = 2$
  - C)  $n = 4 \rightarrow n = 3$
  - D)  $n = 5 \rightarrow n = 4$
- According to Heisenberg uncertainty principle, it is impossible to accurately determine:
  - A) Charge and mass of an electron
  - B) Energy and speed of an electron
  - C) Position and momentum of an electron
  - D) Spin and size of an electron

#### Answer Key

- C
- B
- C
- A
- C

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Expert Tip – Structure of Atom

Remember these three exam rules: **Orbitals =  $n^2$** , **Electrons =  $2n^2$** , **Higher fall → higher energy**. Always check if  **$l = 0$  to  $(n - 1)$**  before selecting quantum numbers. These rules solve most **chem mcq** from this chapter in JEE, NEET, and MHT-CET without calculation.

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**Revision Cycle – Class 11 Chemistry MCQs - 02 Feb 2026**  
**Chapter: Some Basic Concepts of Chemistry**

1. How many moles of oxygen atoms are present in 8.8 g of carbon dioxide (CO<sub>2</sub>)?
  - A) 0.2 mol
  - B) 0.4 mol
  - C) 0.6 mol
  - D) 0.8 mol
  
2. The percentage by mass of hydrogen in water (H<sub>2</sub>O) is closest to:
  - A) 9%
  - B) 11%
  - C) 18%
  - D) 33%
  
3. Which of the following has the maximum number of significant figures?
  - A) 0.0025
  - B) 2.500
  - C) 250
  - D)  $2.50 \times 10^2$
  
4. If the empirical formula of a compound is CH<sub>2</sub> and its molar mass is 42 g mol<sup>-1</sup>, the molecular formula is:
  - A) C<sub>2</sub>H<sub>4</sub>
  - B) C<sub>3</sub>H<sub>6</sub>
  - C) C<sub>4</sub>H<sub>8</sub>
  - D) C<sub>6</sub>H<sub>12</sub>
  
5. Which of the following quantities is expressed in the SI unit mole?
  - A) Mass
  - B) Volume
  - C) Amount of substance
  - D) Density

Answer Key

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

**Chemistry MCQ Practice Questions**  
Useful for NEET, JEE, MHT CET and Other Exams  
Visit [Gopract.com](https://gopract.com) for more Questions

Expert Tip – Some Basic Concepts of Chemistry

Use this simple rule for exams: **Mass** → **Mole** → **Atoms**. Always convert given mass into moles first. For formulas, remember: **Molecular mass** ÷ **Empirical mass** = **multiplier**. If you follow this order, most **chem mcq** from this chapter become easy in JEE, NEET, and MHT-CET.

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## NEET Chemistry MCQs – Chemistry in Everyday Life - 1 Feb 2026

1. Which of the following is an example of an analgesic?

- A) Paracetamol
- B) Penicillin
- C) Chloramphenicol
- D) Aspirin (as antacid)

2. Which drug is used to reduce acidity in the stomach?

- A) Antibiotic
- B) Antiseptic
- C) Antacid
- D) Analgesic

3. Which of the following is a broad spectrum antibiotic?

- A) Penicillin
- B) Streptomycin
- C) Chloramphenicol
- D) Sulphur

4. Which chemical is commonly used as an antiseptic?

- A) Dettol
- B) Soap
- C) Urea
- D) Glucose

5. Artificial sweeteners are used mainly because they:

- A) Give more energy
- B) Increase appetite
- C) Have low calorie value
- D) Act as preservatives

**Chemistry MCQ Practice Questions**  
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Answer Key

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

Expert Tip – Chemistry in Everyday Life (Easy Memory)

Remember this simple NEET trick: **Analgesic** → **pain relief**, **Antacid** → **acidity relief**, **Antibiotic** → **kills bacteria**. Artificial sweeteners give sweetness without calories. This chapter gives direct **chem mcq** in exams, so read NCERT lines carefully and revise daily.