

JEE MAIN P-BLOCK ELEMENTS (GROUP 15–18) — GROUP 17 ELEMENTS (HALOGEN FAMILY) — PYQS

Max. Marks: 16

Questions: 4

Section A (MCQ) — 4 questions

Q.1 Given below are two statements :

Statement-I: The increasing order of boiling point of hydrogen halides is $\text{HCl} < \text{HBr} < \text{HI} < \text{HF}$.

Statement-II: The increasing order of melting point of hydrogen halides is $\text{HCl} < \text{HBr} < \text{HF} < \text{HI}$.

In the light of the above statements, choose the **correct** answer from the options given below :

[JEE Main 2026 (Online) 28th January Evening Shift]

- (1) Statement-I is false but Statement-II is true
- (2) Both Statement-I and Statement-II are false
- (3) Statement-I is true but Statement-II is false
- (4) Both Statement-I and Statement-II are true

Scan or tap for the full solution



Q.2 One mole of $\text{Cl}_2(\text{g})$ was passed into 2 L of cold 2 M KOH solution. After the reaction, the concentrations of Cl^- , ClO^- and OH^- are respectively (assume volume remains constant)

[JEE Main 2026 (Online) 24th January Evening Shift]

- (1) 0.5 M, 0.5 M, 0.5 M (2) 1 M, 1 M, 1 M
- (3) 0.5 M, 0.5 M, 1 M (4) 0.75 M, 0.75 M, 1 M

Scan or tap for the full solution



Q.3 Given below are two statements :

Statement-I: The correct order in terms of bond dissociation enthalpy is $\text{Cl}_2 > \text{Br}_2 > \text{F}_2 > \text{I}_2$.

Statement-II: The correct trend in the covalent character of the metal halides is $[\text{SnCl}_4 > \text{SnCl}_2]$, $[\text{PbCl}_4 > \text{PbCl}_2]$ and $[\text{UF}_4 > \text{UF}_6]$.

In the light of the above statements, choose the **correct** answer from the options given below :

[JEE Main 2026 (Online) 21st January Evening Shift]

- (1) Both Statement-I and Statement-II are true
- (2) Both Statement-I and Statement-II are false
- (3) Statement-I is false but Statement-II is true
- (4) Statement-I is true but Statement-II is false

Scan or tap for the full solution



Q.4 The property/properties that show irregularity in first four elements of group-17 is/are

- A. Covalent radius B. Electron affinity
 - C. Ionic radius D. First ionization energy
- Choose the correct answer from the options given below : [JEE Main 2025 (Online) 2nd April Morning Shift]
- (1) A, B, C and D (2) A and C only
 - (3) B only (4) B and D only

Scan or tap for the full solution



ANSWER KEY

Ques.	1	2	3	4							
Ans.	4	3	4	3							