PART 1 - CHEMISTRY

Topic : p-Block elements (group 15–18)

SECTION–A : (Maximum Marks : 4)

This section contains **ONE** question.

Each question has **FOUR** options (A), (B), (C) and (D). **ONE OR MORE THAN ONE** of these four option(s) is(are) correct answer(s).

For each question, choose the option(s) corresponding to (all) the correct answer(s).

Answer to each question will be evaluated according to the following marking scheme :

Full Marks	: +4	ONLY if (all) the correct option(s) is(are) chosen;
Partial Marks	: +3	If all the four options are correct but ONLY three options are chosen;
Partial Marks	: +2	If three or more options are correct but ONLY two options are chosen, both of which are correct;
Partial Marks	: +1	If two or more options are correct but ONLY one option is chosen and it is a correct option;
Zero Marks	: 0	If none of the options is chosen (i.e. the question is unanswered);
Negative Marks	: –1	In all other cases.

For example, in a question, if **(A), (B) and (D)** are the ONLY three options corresponding to correct answers, then choosing ONLY (A), (B) and (D) will get +4 marks; choosing ONLY (A) and (B) will get +2 marks; choosing ONLY (A) and (D) will get +2 marks; choosing ONLY (B) and (D) will get +2 marks; choosing ONLY (A) will get +1 mark; choosing ONLY (B) will get +1 mark; choosing ONLY (D) will get +1 mark; choosing no option (i.e. the question is unanswered) will get 0 marks; and choosing any other combination of options will get –1 marks.

1. Correct statement(s) about the compounds X, Y and Z is(are)

$$MnO_2 + \text{Conc. HCl} \longrightarrow MnCl_2 + \underset{\text{(greenish yellow gas)}}{X} + H_2O$$

$$NH_3 + \underset{\text{(excess)}}{X} \longrightarrow Y + HCl$$

$$X + \underset{\text{(excess)}}{F_2} \xrightarrow{573\ K} Z$$

[JEE Advanced 2026 Paper 1]

(A) X is used for sterilizing drinking water.

(B) Y has a planar structure.

(C) Z is used in the enrichment of ^{235}U.

(D) Y is a stronger Lewis base than ammonia.

Scan or tap for the full solution

Space for Rough Work

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TEST SERIES
(Academic Session : 2026-2027)

JEE ADVANCED P-BLOCK ELEMENTS (GROUP 15–18) — CHLORINE AND ITS COMPOUNDS — PYQS

Test Pattern : **JEE (Advanced)**

ANSWER KEY

SECTION–A																								
Ques.	1																							
Ans.	**A, C**																							

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