PART 1 - CHEMISTRY

Topic : d- and f-Block elements

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. The pair(s) of diamagnetic ions is(are) [JEE Advanced 2025 Paper 1]

(A) La^{3+}, Ce^{4+} (B) Yb^{2+}, Lu^{3+} (C) La^{2+}, Ce^{3+} (D) Yb^{3+}, Lu^{2+}

Scan or tap for the full solution

Space for Rough Work

JEE ADVANCED D- AND F-BLOCK ELEMENTS — LANTHANOID IONS; MAGNETIC BEHAVIOUR — PYQS

Test Pattern : **JEE (Advanced)**

ANSWER KEY

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

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