

PART 1 - CHEMISTRY

Topic : Structure of atom

SECTION-B : (Maximum Marks : 4)

This section contains **ONE** question.

The answer to each question is a **NON-NEGATIVE INTEGER**.

For each question, enter the correct integer corresponding to the answer in the place designated to enter the answer.

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

Full Marks : +4 If **ONLY** the correct answer is entered;

Zero Marks : 0 In all other cases.

1. X^{a+} and Y^{b+} are hydrogen-like species. The wavelength of light absorbed during the transition between the states with principal quantum numbers $n = 1$ and $n = 2$ of X^{a+} is λ . The wavelength of light absorbed during the transition between the states with principal quantum numbers $n = 2$ and $n = 4$ of Y^{b+} is 9λ . The lowest possible value of $(a + b)$ is ____.

[JEE Advanced 2026 Paper 2]

Scan or tap for the
full solution



Space for Rough Work

JEE ADVANCED STRUCTURE OF ATOM – HYDROGEN-LIKE SPECTRA – PYQS

Test Pattern : **JEE (Advanced)**

ANSWER KEY

[illegible]