

PART 1 - CHEMISTRY

Topic : Solid state

SECTION-A : (Maximum Marks : 4)

- This section contains **ONE** question.
- Each question has **FOUR** options (A), (B), (C) and (D). **ONLY ONE** of these four options is the correct answer.
- For each question, choose the option corresponding to the correct answer.
- Answer to each question will be evaluated according to the following marking scheme :
 Full Marks : +4 If **ONLY** the correct option is chosen;
 Zero Marks : 0 If none of the options is chosen (i.e. the question is unanswered);
 Negative Marks : -1 In all other cases.

1. In a metal deficient oxide sample, $M_xY_2O_4$ (M and Y are metals), M is present in both +2 and +3 oxidation states and Y is in +3 oxidation state. If the fraction of M^{2+} ions present in M is $\frac{1}{3}$, the value of X is _____. [JEE Advanced 2024 Paper 2]
- (A) 0.25 (B) 0.33 (C) 0.67 (D) 0.75

Scan or tap for the full solution



Space for Rough Work

JEE ADVANCED SOLID STATE — NON-STOICHIOMETRIC
(METAL DEFICIENT) OXIDES — PYQS

Test Pattern : JEE (Advanced)

ANSWER KEY

SECTION-A																									
Ques.	1																								
Ans.	D																								