

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

[illegible]