

PART 1 - MATHEMATICS

Topic : Permutations and combinations**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. Let S be the set of all seven-digit numbers that can be formed using the digits 0, 1 and 2. For example, 2210222 is in S , but 0210222 is NOT in S . Then the number of elements x in S such that at least one of the digits 0 and 1 appears exactly twice in x , is equal to _____.

[JEE Advanced 2025 Paper 1]

Scan or tap for the
full solution



Space for Rough Work

JEE ADVANCED PERMUTATIONS AND COMBINATIONS — DERANGEMENTS AND INCLUSION-EXCLUSION (JEE) — PYQS

Test Pattern : **JEE (Advanced)**

ANSWER KEY

SECTION-B

[illegible]