

PYQSide

JEE MAIN PERMUTATIONS AND COMBINATIONS — PERMUTATIONS WHEN ALL OBJECTS ARE DISTINCT — PYQS

Max. Marks: 8

Questions: 2

Section A (MCQ)

- Q.1** The number of 4-letter words, with or without meaning, each consisting of two vowels and two consonants that can be formed from the letters of the word INCONSEQUENTIAL, without repeating any letter, is :

[JEE Main 2026 (Online) 6th April Morning Shift]

- (1) 2670 (2) 2840 (3) 2920 (4) 3600

Scan or tap for the
full solution



Section B (Numerical)

- Q.2** All five letter words are made using all the letters A, B, C, D, E and arranged as in an English dictionary with serial numbers. Let the word at serial number n be denoted by W_n . Let the probability $P(W_n)$ of choosing the word W_n satisfy $P(W_n) = 2P(W_{n-1})$, $n > 1$.

If $P(CDBEA) = \frac{2^\alpha}{2^\beta - 1}$, $\alpha, \beta \in \mathbb{N}$, then $\alpha + \beta$ is equal to _____

[JEE Main 2025 (Online) 3rd April Morning Shift]

Scan or tap for the
full solution



ANSWER KEY

Section A (MCQ)

Ques.	1										
Ans.	4										

Section B (Numerical)

Ques.	2							
Ans.	183							