PERMUTATIONS AND COMBINATIONS - Class XI

Past Year JEE Questions

Questions

Quetion: 01

How many ways are there to arrange the letters in the word GARDEN with vowels in alphabetical order

A. 480

B. 240

C. 360

D. 120

Solutions

Solution: 01

Explanation

In the word "GARDEN", there are two vowels A and E present, and A should come always before E.

 $\therefore \text{ Total no of ways} = \frac{6!}{2!} = 360$

Here A and E has fixed order that is why we divide by 2!.