

**Solution**

The number of options to choose 2 vowels from 4 is equal to  $\binom{4}{2} = \frac{4!}{2!2!} = 6$ .

The number of options to choose 3 consonants from 5 is equal to  $\binom{5}{3} = \frac{5!}{3!2!} = 10$ .

Hence, the number of options to choose 2 vowels and 3 consonants is equal to  $6 \cdot 10 = 60$ .

So, the total number of words formed by 2 vowels and 3 consonants is equal to

$$60 \cdot 5! = 60 \cdot 120 = 7200.$$

**Answer**

c) 7200