Answer on Question #42823-Math-Combinatorics-Number Theory

In an examination a minimum is to be secured in each of the 5 subjects for a pass. In how many ways can a candidate fail?

Solution

Total number of ways is $2^5 = 32$.

A candidate passes in only one way.

Therefore a candidate can fail in $32 - 1 = 31$ ways.

Answer: 31.