A test is conducted which is consisting of 20 MCQs (multiple choices questions) with every MCQ having its four options out of which only one is correct. Determine the probability that a person undertaking that test has answered exactly 5 questions wrong.

Input Parameters :-

n(Number of total questions) = 20

x(Number of wrong answer out of total questions) = 5

y(Number of correct answer out of total questions) = 20-5 = 15

P(Probability of wrong answer per question) = 3/4

Q(Probability of correct answer per question) = 1-3/4 = 1/4

Output :-

Formula for calculating probability = nCx.P^x.Q^y

Probability of exactly 5 questions answered wrong is P(x=5)

**P(x=5) = 20C5\*(3/4)^5\*(1/4)^15**

**So, 15504 \* 0.2373046875 \* 0.000000000931322574615478515625 = 3.426495823077857494354248046875e-6**