Assignment 17.1

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.

P(C ) = ¼

P(W) = ¾

P(X=5) = 20!/5!\*15! P(C )^15 P(W)^5

= 15504 \* ((1/4)^15\*(3/4)^5)

= 15504 \* .0000000009 \* 0.237304688

= 0.0000034265