CBSE NET July 2016 PAPER II

Q. How many committees of five people can be chosen from 20 men and 12 women such that each committee contains at least three women?

(A) 75240
(B) 52492
(C) 41800
(D) 9900

Ans :- (A)

Explanation:-
At least 3 women means, minimum 3 women should be in 5 people group. So, we can choose 3 from 12 women and 2 from 20 men, 4 from 12 women and 1 from 20 men,5 from 12 women 0 from 20 men.
So,
12C3 x 20C2 + 12C4 x 20C1 + 12C5 x 20C0 = 220 x 190 + 495 x 20 + 79 = *52492*

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