30. If A is a 3×3 non-singular matrix such that AA' = A'A and $B = A^{-1}A'$, then BB' equals: [JEE M 2014]

(a) B^{-1} (b) $(B^{-1})'$ (c) I+B (d) I

AA' = A'A B= A-1 A' BB' = (A-'A')(A-'A') = (A-1 A') (A(A-1)') = A'(A'A)(A')' = A'(A A')(A')' AA'= A'A , given is correct.