

There are 10 points in a plane, out of these 6 are collinear, if N is the number of triangles formed by joining these points then: [JEE 2012]

(a) $n \leq 100$

(b) $100 \leq n \leq 140$

(c) $140 \leq n \leq 190$

(d) $n \geq 190$

number of required triangles

$$= {}^{10}C_3 - {}^6C_3 = 120 - 20 = 100$$

(a)