- Q) The number of all possible positive integral values of  $\alpha$  for which the roots of the quadratic equation,  $6x^2 11x + \alpha = 0$  are rational numbers is :
- A) 3
- B) 2
- C) 4
- D) 5

## **Solution:**

For rational D must be perfect square

$$D = 121 - 24\alpha$$

for  $121 - 24\alpha$  to be perfect square a must be 3, 4, 5

So, ans 
$$\alpha = 3$$