

Problem 6) Two similar very small conducting spheres having charges 40 C and  $-20$  C are some distance apart. Now they are touched and kept at the same distance. The ratio of the initial to the final force between them is :

- 1) 8 : 1
- 2) 4 : 1
- 3) 1 : 8
- 4) 1 : 1

Ans) - 1