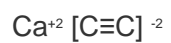


7. The number and type of bonds in C_2^{2-} ion in CaC_2 are:

- (1) Two σ bonds and one π – bond
- (2) Two σ bonds and two π – bonds
- (3) One σ bond and two π – bonds
- (4) One σ bond and one π bond

Solution:



One σ bond and two π – bonds are there in C_2^{2-} ion in CaC_2 .

Hence option (3) is the answer.