

① Mention five characteristics of Element.

Ans: i) They are homogeneous in nature.

ii) They can be represented as symbolically phosphorus-P, iron-Fe, zinc-Zn.....

iii) They have a definite Melting Point & Boiling Point

iv) It occurs in the three states:-

Solid  $\rightarrow$  Fe, S, Zn, C.....

Liquid  $\rightarrow$  Br, Hg.....

Gas  $\rightarrow$  N<sub>2</sub>, O.....

v) They remain in atomic form or molecular form. Fe-atomic, Ar-free atomic, Ag-molecular  
S-molecular

② Why carbon dioxide is a compound whereas carbon is an element?

Ans: Carbon dioxide is a compound as it constitutes carbon and oxygen which are both independent elements whereas carbon is an element consisting only one type of atom.