

## Answer on Question #45024 – Chemistry - Inorganic Chemistry

### Question

All of the following have covalent bonds EXCEPT

- A) HCl
- B) CCl<sub>4</sub>
- C) H<sub>2</sub>O
- D) CsF
- E) CO<sub>2</sub>

### Answer

The correct option is **D) CsF**

All of the following have covalent bonds except CsF (caesium fluoride).

CsF is an ionic compound, i.e. a compound in which ions are held together in a lattice structure by ionic bonds. Caesium has the lowest electronegativity of all non-radioactive elements and fluorine has the highest electronegativity of all elements. It is therefore the most ionic compound discovered to be non-radioactive.