

**Answer on Question #46905 – Chemistry – Physical Chemistry**

**Question:**

In the ground state, an element has 13 electrons in its M shell. The element is

- (1) Manganese
- (1) Cobalt
- (3) Nickel
- (4) Iron

**Solution.**

The electronic configuration of manganese is  $1s^2 2s^2 2p^6 3s^2 3p^6 3d^5 4s^2$ . Mn has 13 electron in M (3) shell.

**Answer: (1) Manganese**