

Copilot

The valencies of d-block elements can vary widely due to their ability to use electrons from both their outermost shell and the penultimate shell (d-orbitals). Here's a summary of the common valencies for some d-block elements:

- **Scandium (Sc):** 3
- **Titanium (Ti):** 2, 3, 4
- **Vanadium (V):** 2, 3, 4, 5
- **Chromium (Cr):** 2, 3, 6
- **Manganese (Mn):** 2, 3, 4, 6, 7
- **Iron (Fe):** 2, 3
- **Cobalt (Co):** 2, 3
- **Nickel (Ni):** 2, 3
- **Copper (Cu):** 1, 2
- **Zinc (Zn):** 2

These valencies are influenced by the specific electron configurations and the stability of different oxidation states.

If you need more detailed information or specific elements, feel free to ask! How's your IIT JEE preparation going?