

TD. Q1

Exercise Q.1.2:

$$1) N = (1s)^2 (2s)^2 (2p)^5$$

$$2) Fe = (1s)^2 (2s)^2 (2p)^6 (3s)^2 (3p)^6 (4s)^2 (3d)^6$$

$$3) Fe^{2+} = (1s)^2 (2s)^2 (2p)^6 (3s)^2 (3p)^6 (3d)^6$$

$$4) I = (1s)^2 (2s)^2 (2p)^6 (3s)^2 (3p)^6 (3d)^{10} (4s)^2 (4p)^6 (5s)^2 (4d)^{10} (5p)^5$$

$$5) I^- = (1s)^2 (2s)^2 (2p)^6 (3s)^2 (3p)^6 (3d)^{10} (4s)^2 (4p)^6 (5s)^2 (4d)^{10} (5p)^6$$

$$6) Si = (1s)^2 (2s)^2 (2p)^6 (3s)^2 (3p)^2$$

$$7) Zn = (1s)^2 (2s)^2 (2p)^6 (3s)^2 (3p)^6 (3d)^{10} (4s)^2 (4p)^6 (5s)^2 (4d)^2$$

$$8) Co = (1s)^2 (2s)^2 (2p)^6 (3s)^2 (3p)^6 (3d)^{10} (4s)^2 (4p)^6 (5s)^2 (4d)^{10} (5p)^6 (6s)^1$$

$$9) Cu = (1s)^2 (2s)^2 (2p)^6 (3s)^2 (3p)^6 (3d)^{10} (4s)^2 (4p)^1$$

$$10) Xe^{+} = (1s)^2 (2s)^2 (2p)^6 (3s)^2 (3p)^6 (3d)^{10} (4s)^2 (4p)^6 (5s)^2 (4d)^{10} (5p)^6 (6s)^2 (4f)^{14} (5d)^{10} (6p)^0$$