

## Previous year Jee problems :-

Q1.

The correct order of the first ionisation enthalpies is

(2019 Main, 10 April II)

- (a)  $Mn < Ti < Zn < Ni$                       (b)  $Ti < Mn < Zn < Ni$   
(c)  $Zn < Ni < Mn < Ti$                       (d)  $Ti < Mn < Ni < Zn$

Q2.

The maximum number of possible oxidation states of actinoides are shown by

(2019 Main, 9 April II)

- (a) berkelium, (Bk) and californium (Cf)  
(b) nobelium (No) and lawrencium (Lr)  
(c) actinium (Ac) and thorium (Th)  
(d) neptunium (Np) and plutonium (Pu)

Q3.

The element that usually does not show variable oxidation states is

(2019 Main, 11 Jan I)

- (a) Sc                      (b) Cu                      (c) Ti                      (d) V