Date Planned : __ / __ / __	Daily Tutorial Sheet - 14	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	Level - 3	Exact Duration :_____

153. In the compounds of type ECl_3 where E = N, P, As or Bi the angles Cl – E – Cl for different E are in the order:

(A) N > P = As = Bi **(B)** N > P > As > Bi **(C)** N < P = As = Bi **(D)** N < P < As < Bi

154. Which of the following is the correct order of increasing bond order?

(A) $C_2^{2-} < He_2^+ < O_2^- < NO$ **(B)** $He_2^+ < O_2^- < NO < C_2^{2-}$

(C) $NO < O_2^- < C_2^{2-} < He_2^+$ **(D)** $O_2^- < NO < C_2^{2-} < He_2^+$

155. The species having bond angle of 120° is:

(A) PH_3 **(B)** ClF_3 **(C)** NCl_3 **(D)** BCl_3

***156.** The species which contain an odd number of valence electrons and paramagnetic are :

(A) NO **(B)** NO_2 **(C)** ClO_2 **(D)** N_2O_4

***157.** Which of the following is planar?

(A) $CH_2 = CH_2$ **(B)** $CH_2 = C = CH_2$

(C) $CH_2 = C = C = CH_2$ **(D)** $CH_2 = CH - C \equiv CH$

158. Which of the following molecules does not contain any π bond?

I NO_2 II CO_2 III H_2O IV SO_2

(A) Only I and II **(B)** Only III **(C)** Only I and III **(D)** I, II, III, IV