12 Chemistry : Dot Diagram Revision

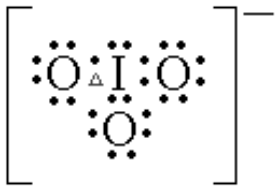
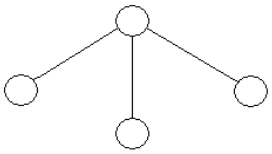
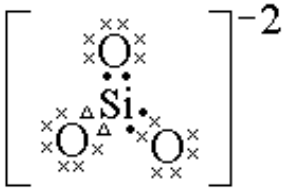
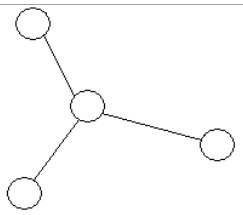
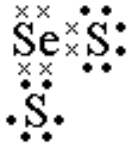
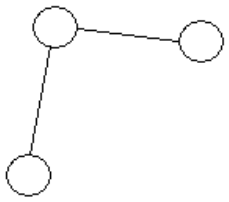
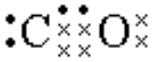
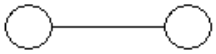
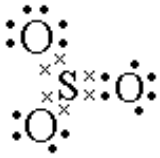
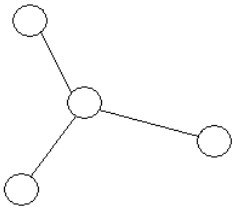
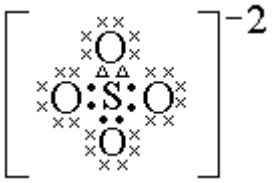
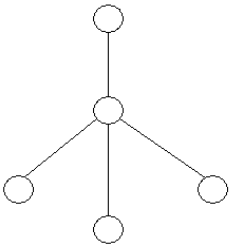
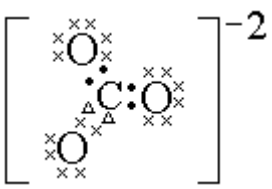
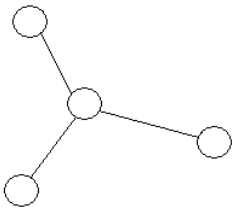
Complete the table below.

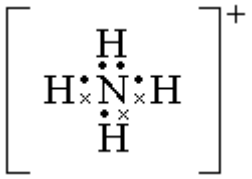
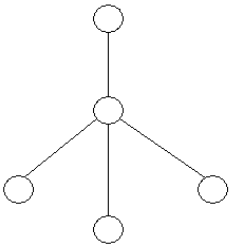
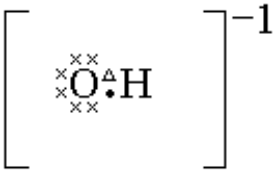
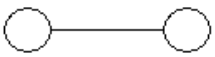
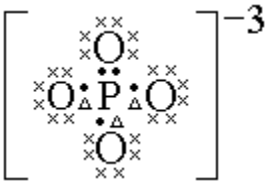
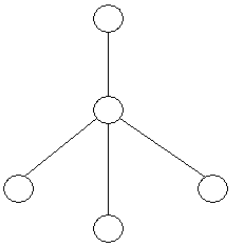
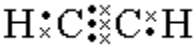
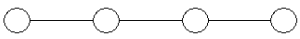
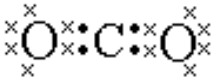
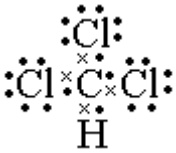
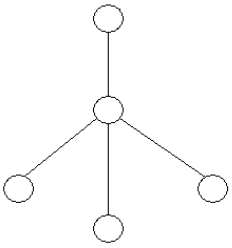
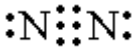
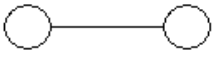
Species	Structural formula (showing all valence electrons)	Draw shape (include all atoms)	Name shape
Iodate ion IO_3^-			
Metasilicate ion SiO_3^{2-}			
Selenium disulfide SeS_2			
Carbon monoxide CO			
Sulfur trioxide SO_3			
Sulfate ion SO_4^{2-}			
Carbonate ion CO_3^{2-}			
HCN			

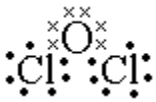
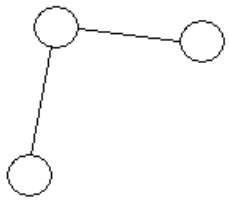
NH_4^+			
OH^-			
PO_4^{3-}			
C_2H_2			
CO_2			
$CHCl_3$			
N_2			
OCl_2			

12 Chemistry : Dot Diagram Revision ANSWERS

Complete the table below.

Species	Structural formula (showing all valence electrons)	Draw shape (include all atoms)	Name shape
Iodate ion IO_3^-			Pyramidal
Metasilicate ion SiO_3^{2-}			Triangular planar
Selenium disulfide SeS_2			Bent
Carbon monoxide CO			Linear
Sulfur trioxide SO_3			Triangular planar
Sulfate ion SO_4^{2-}			Tetrahedral
Carbonate ion CO_3^{2-}			Triangular planar
HCN			Linear

NH_4^+			Tetrahedral
OH^-			Linear
PO_4^{3-}			Tetrahedral
C_2H_2			Linear
CO_2			Linear
$CHCl_3$			Tetrahedral
N_2			Linear

OCl_2			V-shaped or bent