

## PPSC Chemistry Part III Inorganic Chemistry Online Test

Sr	Questions	Answers Choice
1	On hybridization of one s and one p orbitals we get.	A. Two mutualy perpendicular orbitals B. Two orbitals at 180 <sup>o</sup> C. Four orbitals directed tetrahedrally D. Three orbitals in a plane
2	The hybridization of sulphur in sulphur dioxide is.	A. sp B. sp2 C. sp3 D. dsp2
3	The hydrogen bond is strongest in.	A. O - HS B. S - HO C. F - HF D. F - HO
4	Which of the following bonds between carbon -carbon is teh strongest.	A. Sigma bond B. Pi bond C. Double bond D. Triple bond
5	Which one of the following has a linear structure.	A. H2O B. CO2 C. <font face="sans-serif, Arial, Helvetica, sans-serif"><span style="font-size: 13px;">NO2</span> </font> D. SO2
6	Co ordinate covalent bond found is formed by the	<ul><li>A. Transference of electrons</li><li>B. Sharing of electrons</li><li>C. Donation of electrons</li><li>D. None of these</li></ul>
7	The most important conditions for the formation of ionic bond are.	A. High ionization energy of the metallic atom and high electron affinity of the non metallic atom. B. Low ionization of the metallic atom and low electron affinity of the non metallic atom. C. Low ionization energy of metallic atom and high electron affinity of the non metallic atom D. High ionization energy of the metallic atom and high electron affinity of non metallic atom.
8	Which of the following have identical bond order.	A. CN- and O2- B. CN - and NO+ C. O2- and CN+ D. NO+ and CN+
9	Which of the following is diamagnetic	A. O2 B. O2+ C. O2- D. O2 <sup>2-</sup>
10	The order in O2+ is	A. 1.0 B. 1.5 C. 2.0 D. 2.5
11	Which one of following is paramagnetic and has the bond order equal to 0.57	A. N2 B. H2+ C. O2 D. F2
12	Of the molecules, SF4, XeF4, and CF which has square planar geometry.	A. SF4, XeF4 and CF4 B. Sf4 only C. CF4 only D. XeF4
13	Which of the following is planar?	A. CH2Cl2 B. CHCl3 C. CCl4 D. C2H2

14	Which of the following does not apply to metallic bond.	<ul><li>A. Overlapping valence orbitals</li><li>B. Mobile valency electron</li><li>C. Delocalized electrons</li><li>D. Highly directed bonds</li></ul>
15	Strength of H bond in inter mediate between	A. Van der Waals forces and covaler bond B. lonic and covalent bond C. lonic and metallic bond D. Metallic and covalent
16	An sp3 hybrid orbital contains	A. 1/4 a character B. 1/2 a character C. 2/3 a character D. 3/4 a character
17	Bond angle is minimum in	A. H2O B. CO2 C. NH3 D. CH4
18	Among LiCl, BeCl2, BCl3, and CCl4 the covalent bond character follows the order.	A. LiCl < Becl2< Bcl3 < CCl4 B. LiCl > BeCl2 < BCl3< CCl4 C. LiCl< Becl2 < BCl3 < CCl4 D. LiCl > Becl2 > BCl3 < CCl4
19	The pair of molecules or ions having identical geometry is.	A. BCI3, PCI3 B. BF3, NH3 C. CHCI3, CCI4 D. SiCI4, CCI4
20	Which of the following bonds will be non polar.	A. N - H B. O - H C. C - H D. C I - Cl