

Subject: CHEMISTRY Class: XIth

DPP No. : 2 Date:

ical Bonding and Mol

1	The west of E E	$\Omega_{\alpha\alpha} = \Omega_{\alpha} = \Omega_{\alpha}$	anain tha	and an af
1.	The radii of F. F ⁻ .	U and U	are in the	orger or

a)
$$0^{2-} > F^{-} > F > 0$$

b)
$$F^- > 0^{2-} > F > 0$$

c)
$$0^{2-} > 0 > F^- > F$$

a)
$$0^{2-} > F^{-} > F > 0$$
 b) $F^{-} > 0^{2-} > F > 0$ c) $0^{2-} > 0 > F^{-} > F$ d) $0^{2-} > F^{-} > 0 > F$

a)
$$V > Mn > Cr > Ti$$

b)
$$Mn > Cr > Ti > V$$

c) Ti
$$> V > Cr > Mr$$

c) Ti
$$> V > Cr > Mn$$
 d) Cr $> Mn > V > Ti$

3. How many
$$\sigma$$
 and π -bonds are present in given compound?

$$Ph - CH = C - C_2H_5$$

a) 19
$$\sigma$$
 and 4 π – bonds

b) 22
$$\sigma$$
 and 4 π – bonds

c) 25
$$\sigma$$
 and 4 π – bonds

d) 26
$$\sigma$$
 and 4 π – bonds

4.
$$C - Cl$$
 bond is stronger than $C - I$ bond, because

- a) C Cl bond is more ionic than C –I
- b) C Cl bond is polar covalent bond
- c) C Cl bond is more covalent than C –I
- d) C Cl bond length is longer than C –I

5. The ICl molecule is:

- a) Purely covalent
- b) Purely electrovalent
- c) Polar with negative end on chlorine
- d) Polar with negative end on iodine

- a) AgClO₄
- b) Ag_2SO_4
- c) AgF
- d) AgNO₃

- a) It gains electrons
- b) It losses electrons
- c) It shares electrons
- d) None of these

8. The shape of gaseous SnCl₂ is

- a) Tetrahedral
- b) Linear
- c) Angular
- d) *T*-shape

9.	Chlorine atom tends to a a) He	acquire the structure of b) Ne	: c) Ar	d) Kr			
10.	The d – orbital involved in $sp^3 d$ – hybridisation is						
	a) $d_{x^2-y^2}$	$\mathbf{b})d_{xy}$	c) d_{z^2}	$d)d_{zx}$			
11.	When O_2 is converted into O_2^+ ; a) Both paramagnetic character and bond order increase b) Bond order decreases c) Paramagnetic character increases d) Paramagnetic character decreases and the bond order increases						
12.	Intramolecular hydroger a) Water	n bond is present in b) <i>o</i> -nitrophenol	c) <i>p</i> -nitrophenol	d) methylamine			
13.	A pair of compounds wha) NO and ClO ₂		in the group NO, CO, ClO c) ClO ₂ and CO	0_2 , 0_2 0 _s , 0_2 and 0_2 are d) 0_2 and 0_3			
14.	According to VSEPR the obey the order a) <i>Ip bp Ip Ip bp bp</i> c) <i>Ip Ip Ip bp bp bp</i>	eory the repulsion bety	ween different pair (lon b) <i>lp bp bp bp lp lp</i> d) <i>bp bp lp lp lp bp</i>	ne or bond) of electrons			
15.	The bond between two identical non-metal atoms has a pair of electrons: a) Unequally shared between the two b) Equally shared between the two c) Transferred fully from one atom to another d) None of the above						
16.	The bond angle in AsH_3 is greater than that in						
	a) NH ₃	b) H ₂ O	c) BCl ₃	d) None of these			
17.	The correct order of incr a) $Cu \approx Fe < Mg$	reasing electropositive b) Fe $< Cu < Mg$	character among Cu, Fe c) Fe $< Mg < Cu$	-			
18.	H—O—H bond angle in H ₂ O is 104.5° and not 109°28′ because of: a) High electronegativity of oxygen b) Bond pair-bond pair repulsion c) Lone pair-lone pair repulsion d) Lone pair-bond pair repulsion						
19.	The bond order in O_2^+ is a) N_2^+	equal to bond order in: b) CN [—]	c) CO	d)NO ⁺			

20. The electron affinity for inert gases is likely to be:
a) High
b) Small
c) Zero

d) Positive