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	J.E.E./A.I.P.M.T.Foundation - XI Chemistry Worksheet	
Time: 30 min	Ch#4 : Chemical Bonding and Molecular Structure -01	Full Marks: 20
•	s are compulsory. the explanation for the answer where applicable.	
(i) N <sub>2</sub>	ifiguration of following species and find if they are paramagnetic or dia	amagnetic.
(ii) B <sub>2</sub>		(3 Marks)
(i) Be <sub>2</sub>	ch of the following molecules does not exist -	
(ii) $C_2$	nance and resonating structures?	(2 Marks)
Q3 - What is resor	iance and resonating structures:	(3 Marks)
Q4 - Explain why (	CCI $_4$ has a zero dipole moment although C-CI bonds are polar.	(2 Marks)
Q5 - Name and dra	aw structure of two compounds which can form intra molecular hydro	gen bonding. (2 Marks)
Q6 - Find bond ord	der of $O_2$ , $O_2^{2-}$ , $O_2^{2-}$ and $O_2^{2+}$ and arrange these species in decreasing of	rder of bond
•		(5 Marks)
Q7 - What type of	orbitals can overlap to form a covalent bond?	(1 Mark)
Q8 - Name the ele	ectrons which take part in bond formation.	( many
		(1 Mark)
Q9 - Find out the	compound in the following in which does not obey the octet rule. $SF_{2}$ ,	SF <sub>6</sub> , SO <sub>2</sub> , SF <sub>4</sub> .

(1 Mark)