Time: 30 min	XI Chemistry Worksheet Ch#4: Chemical Bonding and Molecular Structure -02 Fu	ıll Marksı 20
Instructions:	CH#4: Chemical boliding and Molecular Structure -02	III IVIAI KS. ZU
	s are compulsory.	
2. Please give	the explanation for the answer where applicable.	
Q1 - What is hydr	rogen bonding? Name the two types of hydrogen bonding?	
		(3 Marks)
Q2 -Find		
(i) Formal charge	on S in HSO4-	
_	e on P in orthophosphoric acid	
		(3 Marks)
Q3 - Which of the	following bond is most polar?	
(i) CI-F		
(ii) Br-F		
(iii) I-F		
(iv) F-F		(2 Marks
		(Z IVIdI KS
Q4 - Which of the	following compound will have highest solubility in water CCI4, CHCI3, CS	S ₂ ,C ₂ H ₅ OH.
		(2 Marks)
<u> </u>	pe of hybridisation in each carbon atom of the following compounds —	
(i) 1, 2 – butadio(ii) Propyne	ਹ। le	
()		(2 Marks)
O6 Find the hon	d order of NO and CO	

Q8 - What is the maximum number of hydrogen bonds in which a water molecule can participate?

Q7 - How is bond order related to the stability of a molecule?

Q9 - Arrange $\mathrm{F}_{\mathrm{2}},\ \mathrm{N}_{\mathrm{2}},\ \mathrm{CI}_{\mathrm{2}},\ \mathrm{O}_{\mathrm{2}}$ in increasing order of bond strengths.

(5 Marks)

(1 Mark)

(1 Mark)

(1 Mark)