CLASS: 12

INDIAN SCHOOL MUSCAT
SECOND PERIODIC TEST

SUBJECT: CHEMISTRY

SET - B

Q.NO.	VALUE POINTS	SPLIT UP MARKS
1.	structure	1
2.	$3Cl_2+6NaOH \rightarrow NaClO_3 +5\ NaCl +3\ H_2O$	½ + ½
3.	Ionization enthalpy of xenon is the least of all noble gases / nearly equal to ionization enthalpy of oxygen	1
4.	a) $XeF_4 + SbF_5 \rightarrow [XeF_3]^+[SbF_6]^-$	1
	b) $5SO_2+ 2MnO_4^- +2\ H_2O \rightarrow 5SO_4^{2-}+4H^+ +2Mn^{2+}$	½ + ½
5.	a) Due to strong hydrogen bonds between ammonia molecules	1
	b) I-Cl [interhalogen] bond is weaker than I-I	1
6.	Reacting ozone with excess KI to which borate buffer is added/liberated iodine estimated with standard sodium thiosulphate solution	1 1
7.	a) Due to small size of oxygen atom O-O bond experiences greater interelectronic repulsions which makes it weaker when compared to S-S.	1
	b) low bond dissociation energy of F-F and high hydration enthalpy of fluoride ion	½ + ½
8.	a) BiH_3 AsH_3, SbH_3, PH_3, NH_3	1
	b) H_2O, H_2S, H_2Se, H_2Te	1
	c) HF, HCl, HBr, HI	1
9.	structures	1 each
10.	Equations + conditions	2+1