



INDIAN SCHOOL MUSCAT SECOND PERIODIC TEST

CHEMISTRY

CLASS: XII Sub. Code: 042 Time Allotted: 50mts

16.09.2018 Max. Marks: 20

GENERAL INSTRUCTIONS:

General instructions:

- All questions are compulsory.
- Mark of each question is indicated against it.

1.	Fluorine does not form oxyacids but other halogens do. Why?	1
2.	What happens when chlorine is passed through hot concentrated solution of a base like NaOH? Write balanced chemical equation.	1
3.	Does the hydrolysis of XeF ₆ lead to a redox reaction? Give reason.	1
4.	Write balanced chemical equation for the following: a) Zn + HNO ₃ (dil) → b) I ⁻ + H ₂ O + O ₃ →	2
5.	Draw the structures of the following: a) H ₂ S ₂ O ₇ b) HClO ₄	2
6.	How is ozone estimated quantitatively?	2
7.	Explain the molecular shape of the following on the basis of VSEPR theory: a) BrF ₅ b) XeO ₃	2
8.	Arrange the following in the order of the property indicated for each set: a) HCl, HF, HI, HBr (increasing acid strength) b) NH ₃ , PH ₃ , AsH ₃ , SbH ₃ , BiH ₃ (decreasing boiling point) c) HClO, HClO ₄ , HClO ₂ , HClO ₃ (decreasing oxidizing power)	3
9.	Explain the Ostwald's process for the manufacture of nitric acid.	3
10.	 How would you account for the following: a) Penta halides of group 15 are more covalent than the tri halides b) SF₆ is known but SH₆ is not known. c) Xenon does not form fluorides such as XeF₃ and XeF₅. 	3