**Karan Arora**  **R.L. Institute M: 9416974837**

**Max Time : 1 hr** **P – BLOCK ELEMENTS Max Marks : 20**

**Class = 12th Chemistry Test CODE : A**

1. Multiple Choice Questions (MCQs) : [ 1 X 9 = 9]
2. Hot conc. H2SO4 acts as moderately strong oxidizing agent. It oxidises both metals and non-metals. Which of the following element is oxidised by conc. H2SO4 into two gaseous products ?

|  |  |  |  |
| --- | --- | --- | --- |
| a) S | b) Cu | c) Zn | d) C |

1. Which of the following is not tetrahedral in shape ?

|  |  |  |  |
| --- | --- | --- | --- |
| a) | b) SF4 | c) | d) SiCl4 |

1. SO2 act as a/an

|  |  |  |  |
| --- | --- | --- | --- |
| a) Reducing agent | b) Oxidising agent | c) Bleaching agent | d) All of these |

1. Out of the following halides of group 16, which do not posses reducing property ?

|  |  |  |  |
| --- | --- | --- | --- |
| a) H2Se | b) H2O | c) H2Te | d) H2S |

1. Which of the following arrangement represents the correct order of electron gain enthalpy (with negative sign) of the given atomic species ?

|  |  |  |  |
| --- | --- | --- | --- |
| a) Cl < F < S < O | b) S < O < Cl < F | c) O < S < F < Cl | d) F < Cl < O < S |

1. Which of the following are peroxoacids of sulphur?

|  |  |  |  |
| --- | --- | --- | --- |
| a) H2S2O6 and H2S2O7 | b) H2S2O7 and H2S2O8 | c) H2SO5 and H2S2O7 | d) H2SO5 and H2S2O8 |

1. In which of the following pairs , the two species are isostructural ?

|  |  |  |  |
| --- | --- | --- | --- |
| a) BF3 & NF3 | b) & XeO3 | c) & | d) SF4 & XeF4 |

1. The structure of XeF6 is

|  |  |  |  |
| --- | --- | --- | --- |
| a) Tetrahedral | b) Square planar | c) Distorted octahedral | d) Linear |

1. The two type of F X F angles are present in which of the following molecule (X = S , Xe , C) :

|  |  |  |  |
| --- | --- | --- | --- |
| a) SF4 | b) SF6 | c) XeF4 | d) CF4 |

1. Why is K << K for H2SO4 in water ? [ 2 ]
2. Why does NH3 form Hydrogen bonds but PH3 does not ? [ 2 ]
3. Describe the manufacture of H2SO4 by contact process. [ 3 ]
4. Draw the structure of the following : [ 4 ]

|  |  |  |  |
| --- | --- | --- | --- |
| a) XeOF4 | b) H2S2O8 | c) XeF4 | d) BrF5 |

**Tarun Arora**  **R.L. Institute M: 9416974837**

**Max Time : 1 hr** **P – BLOCK ELEMENTS Max Marks : 20**

**Class = 12th Chemistry Test CODE : B**

1. Multiple Choice Questions (MCQs) : [ 1 X 9 = 9]
2. The two type of F X F angles are present in which of the following molecule (X = S , Xe , C) :

|  |  |  |  |
| --- | --- | --- | --- |
| a) SF4 | b) SF6 | c) XeF4 | d) CF4 |

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