OLABISI ONABANJO UNIVERSITY

DEPARTMENT OF CHEMICAL SCIENCES.

2009/2010 HARMATTAN SEMESTER CONTINUOUS ASSESSMENT
CHM 201: INORGANIC CHEMISTRY I
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Instruction: Attempt all questions. Questions 1-10 carry one mark each
1. Group V halides are extremely toxic except: (a) NH ₃ (b) PH ₃ (c) AsH ₃ (d) SbH ₃ (e) none of the above.
 Which of the following group V elements does not exhibit allotropy: (a) phosphorus (t) arsenic (c) phosphorus and arsenic (d) antimony (e) bismuth Which of the following is not a binary compound of sulphur with oxygen? (a) S₂O
(b) S ₂ O ₃ (c) 8 ₂ O ₅ (d) SO ₂ (e) SO ₃ 4. O year can be obtained in the laboratory by any one of the following methods except: (a) the thermal decomposition of higher oxides (b) the chemical oxidation of the metals
low in the electrode potential series (c) the decomposition of peroxides (d) the thermal decomposition of the oxides of metals low in the electrode potential series (e) electrolysis of aqueous solutions of alkalis and acids.
5. Group VII elements are: (a) diatomic molecules (b) mono-atomic elements (c) diatomic n gas phase only (d) diatomic in liquid phase only (e) diatomic in solid phase only.
6. Which of the following group VII element cannot be formed by chemical oxidation me hod? (a) fluorine (b) chlorine (c) bromine (d) iodine (a) astatine
The pentahalides of phosphorus results from a
9. Which of the following is not a known oxide of chlorine? (a) chlorine monoxide (b)
chlc ine dioxide (c) chlorine pentoxide (d) chlorine hexoxide (e) chlorine heptoxide. 10. Which of the following hydrides of group VII elements are readily oxidized by concentrated H2SO4 to the free halogen? (a) HF and HCl (b) HCl and HBr (c) HF and HBr (d) HBr and HI (e) HF and HI.
11. State the Hard and Soft Acid and Base (HSAB) principle. (1/2 mark)2 That
Home and Soft Acid and Base principle states that Hand acid will combine with hord Base brindle acid will combine with hord base brindle
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