5-SCH4U Chemistry Grade 12 Electrochemistry Unit 4 Test Solutions

#### MODIFIED TRUE/FALSE

- ANS: F, an increase
- ANS: F, bottom right side
- ANS: T
- ANS: F, negative
- ANS: F, hydrogen gas at the cathode and oxygen gas at the anode

#### MULTIPLE CHOICE

6. ANS: D 7. ANS: B 8. ANS: C 9. ANS: A 10. ANS: B

11.Define oxidation number, oxidation, reduction, reducing agent and oxidizing agent.
Refer to your notes.

12.What is oxidized and what is reduced in the following reaction: N2 + 2O2 → 2NO2 N2 is oxidized; O2 is reduced

13.Determine the oxidation number of each element in the following substances:
a ) H2SO4 H:+1, S:+6; O:-2 b ) Ca3(PO4)2 Ca: +2, P: +5; O:-2 c) Cl2 Cl: 0
d ) KMnO4 K:+1, Mn:+7, O:-2 e ) H3AsO4 H: +1; As: +5, O:-2 f ) CaSnO3 Ca:+2, Sn: +4, O:-2

14.Balance the following equations (use the oxidation number method):

 $MnO4- + 5 Fe2+ + 8 H+ \rightarrow Mn2+ + 5 Fe3+ + 4 H2O$  (acidic solution)  $2 HNO3 + 3 H2S \rightarrow 2 NO + 3 S + 4 H2O$  Cr2O72- + 6 Cl- + 14 H+ 2 Cr3+ + 3 Cl2 + 7 H2O (acidic solution)  $2 Cr(OH)3 + ClO3- + 4 OH- \rightarrow 2 CrO42- + Cl- + 5 H2O$  (basic solution)  $Zn (s) + SO42- + 4 H+ \rightarrow SO2 (g) + Zn2+ + 2 H2O$ 

15. lodine normally has oxidation numbers of -1 and 0. Could I2 serve as a reducing agent? Explain.

Answer: This is not likely to happen because for I2 to be oxidized it would have to lose an electron forming a +1 oxidation number which iodine does not typically do.

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