

Senior 3 - CHEMISTRY BASH

ATTEMPT ALL QUESTIONS

(1 hour : 20 minutes)

1. a) Write ALL possible valencies of each of the following: (20 marks)

- i) Cu.....
- ii) Fe.....
- iii) Ag.....
- iv) Cl.....
- v) OH.....
- vi) NO₃.....
- vii) HCO₃.....
- viii) Pb.....
- ix) Mg.....
- x) SO₄.....
- xi) C.....
- xii) H.....
- xiii) Zn.....
- xiv) Ca.....
- xv) Al.....
- xvi) SO₃.....
- xvii) K.....
- xviii) Hg.....
- xix) Br.....
- xx) Li.....

2. Write the formulae of the following compounds: (10 marks)

Copper(I)oxide

Silver sulphate

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Potassium chlorate

Zinc nitrate

Sodium hydrogen carbonate

Mercuric Chloride

Iron(III)sulphate

Aluminium hydroxide

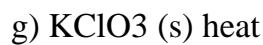
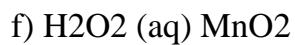
Lead(IV)oxide

Ammonium Phosphate

3. Calculate the percentage composition by mass of SULPHUR in: (Zn=65, S=32, O=16, Cu=64,)

a) Zinc sulphite b) Hydrated copper(II)sulphate

4. Complete and balance the following chemical equations: (10 marks)



5. Draw a well labelled diagram to illustrate how clean and pure water can be obtained from the school pond. (10 marks)