NAME ………………………………………………. ADM ……….

CHEMISTRY FORM TWO C.A.T 1 2ND TERM 2012

 TIME: 1 HR

1. A n element (T) (not the actual chemical symbol) has the following electronics configuration 2.8.7 (3mks)

 a. Name the element

 b.Give two uses of the element T

2. Explain why noble gases are unreactive (1mk)

3. Write the chemical formula of (3mks)

 a. Lead carbonate

 b.Aluminium oxide

c.Magnesium nitride

4. Write the chemical equations of the following word equation and balance them (3mks)

 i) Iron +chlorine gas → iron III chloride

 ii) Iron +Bromine gas → Iron III bromide

 iii)Lithium +Water → Lithium hydrated +hydrated gas

5. What are halogens? Give two examples of them (3mks)

6. Draw the electron arrangement of chlorine (2mks)

7. State the members of the alkaline earth metals family (3mks)

8. Explain why the ionic radius of halogens is larger than their ionic radius (2mks)

9. State three uses of Alkali metals (3mks)

10. a) What is a catalyst (1mk)

 b) Name the catalyst used in oxygen preparation (1mk)

11. a) What are acid base indicators? (2mks)

 b) Name three commercial acid base indicators (3mks)