KIPSUTER BOYS SECONDARY SCHOOL

CAT 1 TERM 2, 2017

FORM TWO   **CHEMISTRY**

Name: _____ Adm. No. _____ Class: _____ Date: _____

Instructions:

    i). Write your name, admission number, class & date in the spaces provided above.

    ii). Check the question paper to ascertain that all pages are printed as indicated and that no question

    is missing.

    *iii). Answer **ALL** questions in the spaces provided after each question.*

1. a) The grid given below represents part of the periodic table. Study it and answer the

   questions that follow. (The letters do not represent the actual symbols of the elements).

    i). What name is given to the group of elements to which C and F long?(1mk)

    ii). Which letter represents the element that is least reactive?(1mk)

    iii).What is the formula of the compound formed when element D and oxygen gas react.

    (1mk)

    iv).What name is given to the group of elements to which M and G belongs?(1mk)

   v). To what period does D belongs?(1mk)

vi). On the grid, indicate with a tick the position of element x which is in the third period of the periodic table and forms x^{3-} ions. (1mk)

b) State three uses of the elements in group O (Noble gases). (3mks)

2. a) Candle wax is mainly a compound consisting of two elements. Name the two elements. (2mks)

b) The set-up below was used to investigate the burning of a candle. Study it and answer the questions that follow.
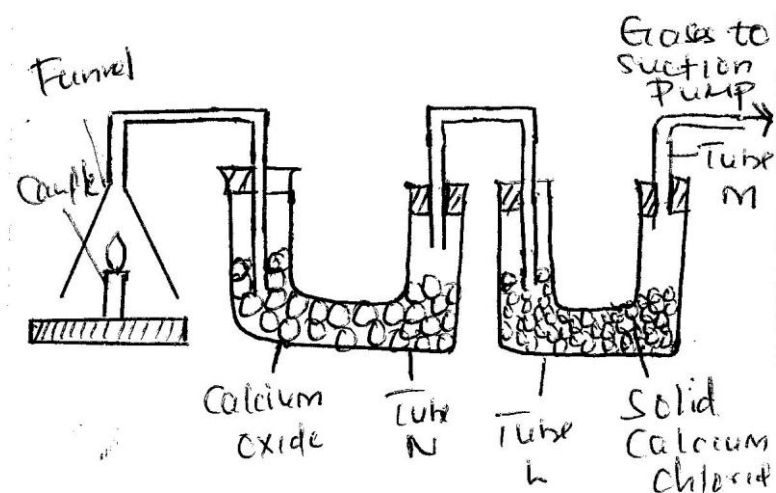
i). What would happen to the burning candle if the pump was turned off? (3mks)

ii). State and explain the changes in the mass that are likely to occur in tube N by the end of the experiment. (3mks)

iii). Name two gases that come out through tube M. (2mks)

iv). What is the purpose of calcium chloride in tube L?(1mk)

v). Name another substance that could be used in place of calcium oxide in tube N.

(1mk)

3. a)What is meant by the terms: (2mks)

i). Element

ii). Atomic number

b) If the formula for a chloride of titanium is TiCl$_3$. What is the formula of its sulphate?

(1mk)

c) What are isotopes? (1mk)

d) Determine the number of neutrons in $^{18}_{8}O$ (1mk)

4. Distinguish between ionization energy and electron affinity. (2mks)

5. Giving one example, define the term radical. (2mks)

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