KENYA NATIONAL EXAMINATION COUNCIL
REVISION MOCK EXAMS 2016
TOP NATIONAL SCHOOLS

FRIENDS SCHOOL KAMUSINGA
COMPUTER STUDIES
PAPER 1

FRIENDS SCHOOL KAMUSINGA KCSE TRIAL AND PRACTICE EXAM 2016
451/1
COMPUTER STUDIES
Paper 1
THEORY
2 ½ Hours

SECTION A (40 MARKS)
Answer all the questions in this section

1. State **four** different parts that make up a computer. (2 Marks)
2. a) What is meant by the term spyware? (1 Mark)
   b) S tate **two** ways of acquiring software
3. Briefly explain the emerging trends in micro computer technology in relation to size. (1 Mark)
4. a) Distinguish between impact and non impact printers. (2 Marks)
   b) MICR and OMR
5. Describe the following terms
   a) Webpage (1 Mak)
   b) Blog (1 Mark)
   c) Hyperlinks (1 Mark)
   d) Web portal (1 Mark)
6. List **four** stages of data collection. (2 Marks)
7. Explain the role of the following ICT specialist
   a) Computer technician. (2 Marks)
   b) Information systems manager. (2 Marks)
8. a) Give **four** advantages of DTP over a word processor. (2 Marks)
   b) Differentiate between the following
   i) Kerning and tracking (2 Marks)
   ii) Margins and column guides (2 Marks)
9. Distinguish between defragmentation of a disk and partitioning of a disk with reference to operating systems (2 Marks)
   Partitioning
   Defragmentation
10. Headache, back and neck pain may result from use of computers. State how each of them can be minimized (2 Marks
    Headache
    Back and neck pain
11. Explain the meaning of the following terms as used in computer programming. (2 Marks)
    i) Syntax
    ii) Semantics
12. a) State **two** methods or tools that an analyst may use in a system design task. (2 Marks)
    b) Give **two** reasons why documentation must be done at each phase in system development cycle. (2 Marks)
13. Explain the functions of the following network devices. (2 Marks)
    Router
    Gateway

14. Differentiate between baseband and broadband signal as used in networking (2 Marks)
    a) Baseband signal
    b) Broadband signal
15. Define the term simulation (1 Mark)

SECTION B (60MARKS)
Answer question 16 and any other three questions from this section

16. Kazungu house-ware suppliers pays 10% commission on sales that are above Kshs.20,000 and 4% on any sales that are less than this target. If the sales salesman sells in cash, he gets an extra 5% commission on total sales, else no commission if on credit. (7 Marks)a) Write a Pseudo – code for a program that would;
    i. Prompt a user for sales, terms of sale, and name of salesman/lady.
    ii. Calculate the commission and total amount.
    iii. Display the commission and total amount for a particular salesman.
    b) Draw a flow chart for the above Pseudo – code (8 Marks)
17. a) What is the hexadecimal equivalent of 747_8 (3 Marks)
    b) Use one's compliment to solve the following sum: (2 Marks)
       $- 6_{10}$
    c) State **two** reasons for using binary system in digital technology. (2 Marks)
    d) Explain the term attenuation as used in networking. (2 Marks)
    e) Explain the following terms as used in fibre optic cables. (4 Marks)
       i) Single mode
       ii) Multi-mode
    f) Convert 7.125_{10} to its binary equivalent. (2 Marks)
18   i)   Name **four** data types used in spreadsheets. (2 Marks)
     ii)   Outline **five** advantages of an electronic spreadsheet over the traditional ledger. (5 Marks)
     iii)   What is a chart wizard in spreadsheets? (1 Mark)
     iv)   Name and explain the use of the following commands found in the spell check dialog box in reference to word processing (6 Marks)
     a)   Change
     b)   Ignore once
     c)   Add
     v)   What is a template in word processing? (1 Mark)
19   i)   Describe **three** ways in which computers have positively impacted on education. (3 Marks)
     ii)   The traffic lights serve as output devices for a computerized traffic system. Name the appropriate input device for this system. (1 Mark)
     iii)   State **three** advantages of computer based simulation. (6 Marks)
     iv)   Differentiate between a software engineer and a computer engineer. (2 Marks)
     v)   Name **three** duties that are carried out by a web administrator. (3 Marks)
20   i)   List and briefly describe **three** components of a database system. (3 Marks)
     ii)   Define the following terms as used in a database
     a)   Attribute (1 Mark)
     b)   Database model (1 Mark)
     c)   Macro (1Mark)
     iii)   Explain **three** types of database models. (6 Marks)
     iv)   State **three** objectives of normalization. (3 Marks)