THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

CERTIFICATE IN CIVIL & BUILDING ENGINEERING

CESC 1102: INTRODUCTION TO COMPUTER SCIENCE

END OF SEMESTER EXAMINATIONS

SERIES: AUGUST/SEPTEMBER 2011

TIME: 2 HOURS

Instructions to Candidates:
You should have the following for this examination
  • *Answer booklet*
Answer question **ONE (COMPULSORY)** in section **A** and any other **TWO** questions from section **B**
This paper consists of **THREE** printed pages

SECTION A (30 marks)

Question 1 (Compulsory)

a) What is a computer?   (2 marks)

b) Differentiate between a computer and a typewriter   (3 marks)

c) Give the functions of each of the following input devices
    i)   Keyboard
    ii)   Mouse
    iii)   Scanner
    iv)   Digitizer   (5 marks)

d) Distinguish between Time sharing and batch processing   (4 marks)

e) What is computer network   (1 marks)

f) Give the functions of a control unit found in the CPU   (3 marks)

g) Name **THREE** ways computers are classified as   (3 marks)

h) Differentiate between the following
    (i)   Software and hardware
    (ii)   Peripheral and resources   (4 marks)

i) Name the **TWO** most important toolbars used when working with Ms Word   (2 mark)

j) Differentiate between the following as used in ms word application
    i)   Save and save as
    ii)   Close and exit   (4 marks)

SECTION B (40 marks)

Question 2 (20 marks)

a) Differentiate between Microsoft windows and Linux operating systems   (10 marks)

b) With the help of a diagram, describe the software family tree   (10 marks)

Question 3 (20 marks)

a) What is data processing mode?   (2 marks)

b) With the help of a diagram, describe multitasking data processing mode   (7 marks)

c) Give the advantages and disadvantages of multitasking processing modes   (6 marks)

d) Explain the interrelationship between the following:

    i)   Data
    ii)   Information   (5 marks)

Question 4 (20 marks)

Discuss the distinguishing features of each of the following types of microcomputers
    i)   Laptop
    ii)   Palmtop
    iii)   Desktop
    iv)   Notebook   (20 marks)

Question 5 (20 marks)

a) What is an internet   (2 marks)

b) Briefly describe the Microsoft Internet Explorer browser dialogue box   (10 marks)

c) Using diagram, describe the windows XP desktop environment   (8 marks)