The Co-operative University College of Kenya

(A Constituent College of Jomo Kenyatta University of Agriculture & Technology)

SUPPLEMENTARY/SPECIAL EXAMINATION -2016

EXAMINATION FOR THE DEGREE OF BACHELOR OF CO-OPERATIVE BUSINESS

UNIT CODE: CMCU 2102

UNIT TITLE: COMPUTER APPLICATIONS

DATE: TIME: 2 HOURS

INSTRUCTIONS:
- Answer question **ONE (compulsory)** and any other **TWO** questions

QUESTION ONE
(a) Define the following terms
    i. Software
    ii. Plotter
    iii. Gigabyte
    iv. Operating system   (4 marks)
(b) Differentiate a bit from a byte   (1 mark)
(c) A barcode is made up of different components. List the FOUR components that are found in a barcode   (2 marks)
(d) Perform the following calculations
    i. Convert the following binary numbers to decimal   (3 marks)
       ▪ 10101010
       ▪ 111
    ii. Convert the following hexadecimal to binary numbers   (3 marks)
       ▪ 3ACD
       ▪ E1D
(e) Name and describe the THREE different types of ROM   (6 marks)
(f) Computers have recently been bought at Mwalimu Sacco Ltd for use. The computers cost the company a fortune
    i. Give 5 merits of using computers   (3 marks)
    ii. Give 3 demerits of computers   (3 marks)
(g) Give and describe THREE types of scanners   (3 marks)

QUESTION TWO
(a) Computer networks have been used across many organizations since most of them reap enormous benefits from such implementations.
    i. What is a computer network   (1 mark)
    ii. Describe THREE devices used in a computer network   (6 marks)
    iii. Give FOUR advantages of computer networks   (2 marks)
(b) Different topologies can be used across organizations when setting up a network
    i. What is a network topology   (1 mark)

ii.   Using a diagram, describe the star topology while outlining its merits and
       demerits   (6 marks)

QUESTION THREE

(a) Using the internet, institutions and organizations have transformed the way they
    operate
    i.   What is the internet?
    ii.   Describe TWO online services that can be accessed over the internet
                                                                              (4 marks)
    iii.   Differentiate a hub from a switch   (2 marks)
(b) Over the internet, computer and networks and exposed to a number of threats
    i.   Describe 3 goals of information security   (6 marks)
    ii.   Differentiate a virus from a worm   (2 marks)
    iii.   Mary's computer has in the recent past begun working in an unusual manner.
           The computer technician stated that this could be a virus   (3 marks)
           ▪   Give 3 ways of recognizing viruses   (3 marks)
           ▪   Give 2 ways through which viruses could be avoided   (2 marks)

QUESTION FOUR

(a) Recently Isaac went to Taj Shopping Mall to purchase a computer system. The
    computer had windows 10 operating system and a number of system utilities
    i.   What is an operating system   (1 mark)
    ii.   List TWO examples of operating systems   (1 mark)
    iii.   Name and describe 2 system utilities   (4 marks)
    iv.   Using examples, describe how the operating system perform error handling
           and memory management   (6 marks)
    v.   Name and describe 3 types of interfaces that can be found in a computer's
           operating system   (3 marks)
(b) Describe the application of computer on co-operatives   (5 marks)