



SOUTH EASTERN KENYA UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF COMMERCE

SCI 112: INTRODUCTION TO COMPUTER SYSTEMS

(Machakos Campus)

DATE: 06TH DECEMBER, 2017

TIME: 4.00 -6.00 PM

INSTRUCTIONS TO CANDIDATES

- a) Answer ALL questions from section A (Compulsory)
 - b) Answer ANY TWO questions from section B
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SECTION A (30 Marks) - Compulsory

Question One (compulsory) (30 Marks)

- a) Briefly explain the classification of computers according to historical development (generations) (10 marks)
- b) Explain the following terms as used in computer science (4 marks)
 - (i) Data
 - (ii) Program
 - (iii) Data processing
 - (iv) Information
- c) State two specific examples where each of the following types of computers can be used (4 marks)
 - (i) Supercomputer
 - (ii) Mainframe computer
 - (iii) Minicomputer
 - (iv) Microcomputer / personal computer
- d) Give four examples of special – purpose computers (2 marks)

- e) Give four characteristics of ROM (4marks)
- f) Convert the following decimal integers into the requested number system. (6 marks)
- i) 36 into equivalent binary number
 - ii) 745 into equivalent hexadecimal number.

Question Two (20 Marks)

- a) List three factors to be considered when purchasing a microcomputer (3 marks)
- b) Explain four reasons which make microcomputers suitable for personal use.(4 marks)
- c) Give two main functions of a computer input device. (2 marks)
- d) Give two examples of the following devices in each case (5 marks)
 - (i). Data capture device.
 - (ii). Keying device.
 - (III). Pointing device.
 - (iv). Voice device.
- (v). Printing device.
- e) A computer must go through the process of booting/ initialization before use(6 marks)
 - (i) Explain what happens in the computer during the booting process
 - (ii) Give and explain two types of booting

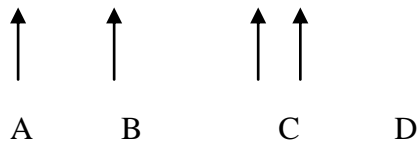
Question Three (20 Marks)

- a) State why a modem is required to connect him to the internet. (2 marks)
- b) Veronica tried to retrieve a file following all the steps correctly. The filename did not appear in file list box. State three causes for this. (3 marks)
- c) Name the two most common protocols for the Internet, and state their functions. (3 marks)
- d) For each of the following, state the type of cell reference (4 marks)
 - i) A5
 - ii) \$F\$5
 - iii) H\$21
 - iv) \$D7
- e) Differentiate between relative and absolute cell reference as used in MS-Excel. (2 marks)
- f) Give eight document formatting features of a word processor. (4 marks)
- g) Give two advantages of previewing a document before printing. (2 marks)

Question Four (20 Marks)

- a) Explain the use of the file menu common in all Microsoft Application Windows? (2 marks)
- b) Explain the following terms as used in internet (2 marks)
- i) Website
 - ii) Browse/Surf the web.
- c) List and explain three functional elements of a computer system (3 marks)
- d) Define the following terms as used in computing (2 marks)
- (i) A computer
 - (ii) Computer system
- e) Identify the parts of the following e-mail address labeled A, B, C and D

bsc@sekuucuniversity . ac.ke (4 marks)



- f) Discuss four advantages that electronic mails have over regular mails. (4 marks)
- g) Outline three reasons why it is important to procedurally shut down the computer instead of cutting off power supply from the source while the computer is still on. (3 marks)