



(Knowledge for Development)

KIBABII UNIVERSITY

**UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR**

**END OF SEMESTER EXAMINATIONS
YEAR ONE SEMESTER ONE EXAMINATIONS**

**FOR THE BACHELORS DEGREE
(SCIENCE, EDA, EDS, ECDE, BJM, BSW, BCR, BCOM,
BBM, SMA)**

**COURSE CODE : CSC 110
COURSE TITLE : FUNDAMENTALS OF
COMPUTING**

DATE: 08/01/2018 TIME: 9:00 A.M – 11:00 A.M

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

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QUESTION ONE [30 MARKS] [COMPULSORY]

- a) Define the following: [3 marks]
- (i) Computer
 - (ii) Data
 - (iii) Primary memory
- b) Discuss the history of computers. [12 mks]
- c) Convert the binary number 1101101_2 [4 mks]
- d) Differentiate between a bit and a byte. [1 mks]
- e) Briefly describe the types of computers that exist today. [8 mks]
- f) Using examples, explain system software. [2 mks]

QUESTION TWO [20 MARKS]

- a) Explain why a fast growing organization would need to network its computing resources. [4 mks]
- b) Discuss briefly any TWO computer input devices used at a point of sale. [2 mks]
- c) Convert the following to binary number system. [4 mks]
- (i) 34
 - (ii) 24_8
- d) Outline FOUR differences between RAM and ROM. [4 mks]
- e) Explain any FOUR areas the internet has widely been used. [6 mks]

QUESTION THREE [20 MARKS]

- a) Discuss the characteristics of computers. [4 mks]
- b) Distinguish between application software and utility software, giving examples. [2 mks]
- c) Outline any FOUR software and the type of task you would accomplish while using them in an organization. [8 mks]
- d) Describe the two common data representation schemes in a computer. [4 mks]
- e) Explain any two system buses in a computer. [2 mks]

QUESTION FOUR [20 MARKS]

- a) Define the following:
 - i. Computer network. [1 mk]
 - ii. Data communication [1 mk]
- b) Explain briefly any THREE types of networks that you know. [3 mks]
- c) Your lecturer has asked you to write a term paper using a computer. Explain how the following will help you? *ROM, RAM, Application software, secondary storage devices.* [4 mks]
- d) With the aid of diagrams explain any three types of network topologies. [6 mks]
- e) Discuss briefly the primary storage of a computer. [5 mks]

QUESTION FIVE [20 MARKS]

- a) Differentiate between hardware and software components of a computer. [3 mks]
- b) Explain the functions of the processor of computer. [3 mks]
- c) Discuss any three pointing devices. [6 mks]
- d) With examples explain the different classifications of computers. [4 mks]
- e) Briefly explain the following: [4 mks]
 - i. Programming language
 - ii. Machine language
 - iii. Assembly language
 - iv. High level language