



**KIBABII UNIVERSITY COLLEGE**

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**UNIVERSITY REGULAR EXAMINATIONS**

**2013 /2014 ACADEMIC YEAR**

**1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER EXAMINATIONS**

**(MAIN EXAMINATION)**

**BACHELOR OF COMMERCE, EDUCATION, COMPUTER SCIENCE**

**& INFORMATION TECHNOLOGY**

**COURSE CODE: CSC 110**

**COURSE TITLE: FUNDAMENTALS OF COMPUTER**

**DATE: 28<sup>TH</sup> APRIL,2014**

**TIME: 2:00P.M. – 5:00P.M.**

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**INSTRUCTIONS TO CANDIDATES:**

Attempt question **ONE (1)** and **ANY TWO (2)** other questions from section B.

## Section A

### Question

- a) State any four applications of computer? (4mks)
- b) Specify the Electronic components used for different computer generations. (4mks)
- c) Define Clients and Servers. (3mks)
- d) Name any three media used in guided communication media (3mks)
- e) Differentiate between internet and World Wide Web (2mks)
- f) List three types of operating system (3mks)
- g) State any three types of secondary storage media (3mks)
- h) List three difference between wide area network (WAN) and local area networks (LAN) (3mks)
- i) Write the following abbreviations in fully as used in computer studies (3mks)
  - i. POST
  - ii. RAM
  - iii. ROM
- j) Distinguish between the following (2mks)  
Arithmetic logic unit and control unit

## Section B

### Question 2

- a) State and explain components of computer systems? (10mks)
- b) Differentiate between Software and hardware? (4mks)
- c) Differentiate between a volatile and non-volatile memory? (4mks)
- d) What is an IC? How does it help in reducing the size of Computers? (2mks)

### Question 3

- a) Define (1) Bit (2) Byte? (4mks)
- b) Write short notes on primary and secondary storage. (2mks)
- c) List and explain types of computers based on size, memory capacity. (6mks)
- d) Write short notes on cache memory. (4mks)
- e) Differentiate analog and digital computers? (4mks)

### Question 4

- a) What is an Operating System? (2mks)
- b) State and explain functions of operating system? (6mks)
- c) What is a Topology? Explain any four main types of Physical Topologies (6mks)
- d) Describe the Boot-Up process of a computer (4mks)
- e) State any four input device (2mks)

**Question 5**

- (a) Convert the following decimal numbers into binary, octal and hexadecimal. (9 mks)
- i. 24
  - ii. 47
  - iii. 675
- (b) Convert the following binary numbers into decimal numbers. (3mks)
- 110000111
- (c) Convert the following octal numbers into decimal numbers. (3mks)
- 234
- (d) What is Applications Software? Give examples of Applications Software (2mks)
- (e) Explain briefly how people use Internet or what can be done with Internet (3mks)