

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**SECOND YEAR EXAMINATION FOR THE AWARD OF
BACHELOR OF ARTS IN COMMUNICATION AND MEDIA**

COMM 230: INFORMATION TECHNOLOGY 1

STREAMS: BA Y2 S1

TIME: 2 HOURS

DAY/DATE :TUESDAY 5/12/2017

11.30 A.M – 1.30 P.M

INSTRUCTIONS:

- **Answer question ONE and TWO other questions**
- **Sketch maps and diagrams may be used whenever they help to illustrate your answer**
- **Do not write anything on the question paper**
- **This is a closed book exam, No reference materials are allowed in the examination room**
- **There will be No use of mobile phones or any other unauthorized materials**
- **Write your answers legibly and use your time wisely**

Question One Compulsory (30 marks)

- (a). Web browsers provide users with a variety of tools that enable them to navigate through complex collections of web pages. State and explain the function for some of the tools provided by web browsers. [4marks]
- (b) Highlight the differences in the following computing terminologies:
- i. Information Systems and Information Technology [4 marks]
 - ii. Computer software and computer hardware [4 marks]
 - iii. Laser and Inkjet printer [4 marks]
 - iv. Desktop and portable computer [4 marks]
- (c) Giving examples, explain what do you understand by the following terms?
- i. Input devices [2 marks]
 - ii. Optical scanning devices [2 marks]
 - iii. Operating system [2 marks]
 - iv. Programming language [2 marks]

- (d) Social sites such as Facebook and twitter are currently very popular in our society. Discuss two advantages and two disadvantages of these sites. [4 marks]
- (e) Perform the following number conversions. [2 marks]
- (i). 100111011_2 to decimal equivalent
 - (ii). 32_{10} to its binary equivalent

Question Two (20 marks)

- a) Briefly explain
- i. System Software
 - ii. Application programmer
 - iii. Spreadsheet software [6 marks]
- b) List the four advantages of a high level programming language. [4 marks]
- c) Explain TWO positive impacts of Information Technology on Communication and media practices. [4 marks]
- d) Giving examples, explain THREE security issues posed by Cyber space. [6 marks]

Question Three (20 marks)

- a) Briefly describe the THREE basic categories of computers. [6 marks]
- b) What do you understand by the following terms
- i) Machine language
 - ii) Compiler
 - iii) Assembler [6 marks]
- c) Describe any FOUR basic operations performed by a computer system? [8 marks]

Question Four (20 marks)

- a) Briefly discuss any FOUR common operating system software available in the market today [8 marks]
- b) State four responsibilities of the Information Technology department of a large company. [4 marks]
- c) Write a simple Java program that displays the phrase “HELLO FRIEND, YES!” on the screen. [8 marks]

Question Five [20 marks]

- a) List FOUR popular Utility programs. [4 marks]
- b) Explain the TWO components of Information Technology. [4 marks]
- c) Describe the following terms with respect to a Spreadsheet package
- i. Cell
 - ii. Formula

iii. Range

[6 marks]

- c) Explain the THREE important developments made by communication or telecommunication technology in recent years.

[6 marks]
