

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

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

COMM 230: INFORMATION TECHNOLOGY 1

STREAMS: BA (COMMUNICATION AND MEDIA) Y2S1 TIME: 2 HOURS

DAY/DATE: MONDAY 03/12/2018

11.30 A.M. – 1.30 P.M.

INSTRUCTIONS:

- Answer question **ONE** and **TWO** other questions
- Do not write anything on the question paper
- Write your answers legibly and use your time wisely

Question One Compulsory [30 marks]

- (a). Define the following terms: computer, data and information technology[4mks]
- (b). When using any mail handling program for sending and receiving an email, what is the purpose of the following?
- Inbox
 - C.C
 - Subject
- [6 marks]

- (b) Highlight the differences in the following computing terminologies:

- Information Systems and Information Technology [4 marks]
- Computer software and computer hardware [4 marks]
- Laser and Inkjet printer [4 marks]
- Desktop and portable computer [4 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. [2 marks]

- (e) Perform the following number conversions. [2 marks]

- 100111011_2 to decimal equivalent
- 32_{10} to its binary equivalent

SECTION B (ANSWER ONLY TWO QUESTIONS FROM THIS SECTION)

Question Two (20 marks)

- (a) Explain the differences between main memory and secondary memory in a computer system. [4 marks]
- (b) All web browsers provide users with a variety of tools that enable them to navigate through complex collections of web pages. State any two and explain the functions for these tools. [4 marks]
- (c) Fred is the head of a local Network consulting company. His company has won a contract to design and develop a network for a middle level college in Chuka. Explain three advantages the college will gain by implementing the network. [6 marks]

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 [4mks]
- 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]

- d) The table below shows bonus points for staff members at Tellam International Limited.

Index	A	B	C	D	E
	Name	Month 1	Month 2	Month 3	Month 4
1	James	48	89	65	89
2	Mary	54	76	68	80
3	Korir	17	88	76	86
4	John	99	60	65	58

Use the information above to answer the questions below.

- (i). Write a formula and function in MS Excel that would calculate the mean score for Mary. [2 marks]
- (ii). Write a function in MS Excel that would compute the highest score in month 3. [2 marks]
- (iii). Explain the features of a simple IF function in Microsoft Excel. [2 marks]
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