

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATIONS FOR THE AWARD OF BACHELOR OF SCIENCE IN APPLIED COMPUTER SCIENCE

ACSC 101: INTRODUCTION TO INFORMATION TECHNOLOGY

STREAMS: APPLIED COMP SCIENCE Y1S1

TIME: 2 HOURS

DAY/TIME: FRIDAY 8/12/2017

8.30 A.M – 10.30 A.M

INSTRUCTIONS:

- Answer QUESTION ONE and any other TWO questions.
- This is a CLOSED BOOK exam. No reference materials are allowed in the exam room.
- No mobile phone allowed in the exam room (*make sure to switch it off and leave it with the invigilator if you carried one*).
- Write your answers legibly and use your time wisely

SECTION A (COMPULSORY)

Question One (Compulsory) (30 marks)

- Discuss the instruction-execution cycle. [6 marks]
- Outline the characteristics of primary memory. [4 marks]
- Describe the CPU and the functions of each part of the CPU. [3 marks]
- Distinguish between *system software* and *application software*. [2 marks]
- Discuss the impacts of social networks in the Kenyan society. [4 marks]
- Describe the relationship between computer software and hardware. Make use of a well labeled diagram. [5 marks]
- What are the various implementations of cloud computing. [6 Marks]

SECTION B (Answer any TWO questions from this section)

Question Two (20 marks)

- What are the functions of IT. [6 Marks]
- Discuss the different types of Information Systems. [8 Marks]
- Discuss the type of commands in a UNIX system. [6 marks]

Question Three (20 marks)

- a) Discuss the type of constraints that should be enforced in a database. [6 marks]
- b) Discuss 3 ethical issues posed by IT. [6 marks]
- c) Compare between the layered models in network communication. [6 marks]
- d) Differentiate between icons and folders. [2 marks]

Question Four (20 marks)

- a) Discuss automation and how it has revolutionalized the world. [6 marks]
- b) Briefly describe any three popular DBMS. [6 marks]
- c) Discuss the common application software in an office and their merits. [8 Marks]

Question Five (20 marks)

- a) Distinguish between various data processing models. [6 marks]
 - b) Discuss any three types of information systems. [6 marks]
 - c) Describe how computer hardware represents data. [4 marks]
 - d) Explain the different acquisition schemes for software. [4 marks]
-