



GARISSA UNIVERSITY COLLEGE

(A Constituent College of Moi University)

**UNIVERSITY EXAMINATION 2016/2017 ACADEMIC YEAR ONE
SECOND SEMESTER EXAMINATION**

SUPPLEMENTARY/SPECIAL EXAMINATION

SCHOOL OF BUSINESS AND ECONOMICS

FOR THE DEGREE OF BACHELOR OF EDUCATION (ARTS)

COURSE CODE: ECO 101

COURSE TITLE: INTRODUCTION TO COMPUTERS

EXAMINATION DURATION: 3 HOURS

DATE: 27/09/17

TIME: 09.00-12.00 PM

INSTRUCTION TO CANDIDATES

- **The examination has SIX (6) questions**
- **Question ONE (1) is COMPULSORY**
- **Choose any other THREE (3) questions from the remaining FIVE (5) questions**
- **Use sketch diagrams to illustrate your answer whenever necessary**
- **Do not carry mobile phones or any other written materials in examination room**
- **Do not write on this paper**

This paper consists of TWO (2) printed pages

please turn over



QUESTION ONE (COMPULSORY)

- (a) The computer is made up of three parts which are contained in the CPU. Briefly explain them [6 marks]
- (b) Differentiate between batch processing and real time processing [5 marks]
- (c) Outline one advantage and one disadvantage of automatic processing [2 marks]
- (d) Explain two areas where computers are applied in the insurance business. [2 marks]
- (e) Differentiate between application software from tailor made software [6 marks]

QUESTION TWO

- (a) Define application software and provide three examples. [5 marks]
- (b) Differentiate data from information. [2 marks]
- (c) What are the basic operations of a computer [3 marks]
- (d) Give four characteristics of computer systems. [2 marks]
- (e) What is an analog computer and where is it applied [3 marks]

QUESTION THREE

- (a) Define a computer program [2 marks]
- (b) Explain two advantages and two disadvantages of secondary memory. [4 marks]
- (c) What is backing up in a computer and why is it important. [4 marks]
- (d) Differentiate between bit and byte. [2 marks]
- (e) Give two uses of computer in medicine and healthcare. [3 marks]

QUESTION FOUR

- (a) Explain the following [6marks]
 - i. Bit
 - ii. Byte
 - iii. Computer word
 - iv. Computer file



- (b) Explain the difference between OCL and MICR as used in computer systems. [2 mark]
- (c) Give two advantages and two disadvantages of machine language. [4 marks]
- (d) Explain three types of data communication options. [3 marks]

QUESTION FIVE

- (a) Using one's complement perform the following $37_{10} - 13_{10}$ [4 marks]
- (b) Computers cannot work without an operating system. Outline four functions of an operating system to justify this statement [4 marks]
- (c) Outline three types of computer. [5 marks]
- (d) Give one advantages of using a magnetic disk as a computer storage medium. [2 marks]

QUESTION SIX

- (a) Differentiate between ROM and RAM. [4 marks]
- (b) Convert the following octal numbers to hexadecimal [4 marks]
- i. 173
- ii. 325
- (c) Outline four challenges posed by the introduction of ICT in schools [4 marks]
- (d) State three characteristics of each of the following generations of computers in terms of hardware technology [3 marks]

