



## GARISSA UNIVERSITY

UNIVERSITY EXAMINATION **2017/2018** ACADEMIC YEAR **ONE**  
**SECOND** SEMESTER EXAMINATION

SCHOOL OF COMPUTER AND INFORMATION SCIENCES

FOR THE DEGREE OF BACHELOR OF BUSINESS MANAGEMENT

COURSE CODE: BBM 101

COURSE TITLE: INTRODUCTION TO COMPUTERS

EXAMINATION DURATION: 3 HOURS

**DATE: 12/04/18**

**TIME: 2.00-5.00 PM**

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### 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 **THREE (3)** 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) What are the basic operations of a computer [3 marks]
- (c) With the aid of a diagram describe two LAN topologies. [4 marks]
- (d) 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) Draw a Micro computer system naming all the parts and give one example of each part [6 marks]
- (b) Outline three advantages of using computers in road transport. [3 marks]
- (c) With the aid of a diagram, describe the typical categories of computer software. [6 marks]



### QUESTION FIVE

- (a) Using one's complement perform the following  $11011 - 1001$  **[4 marks]**
- (b) Computers cannot work without an operating system. Outline four functions of an operating system to justify this statement **[4 marks]**
- (c) Describe three examples of secondary storage media used in computers. **[6 marks]**
- (d) Give one advantages of using a magnetic disk as a computer storage medium. **[1 mark]**

### QUESTION SIX

- (a) Convert the following decimal numbers to- binary equivalent. **[4 marks]**
  - i. 27.625
  - ii. 37.5
- (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]**

