

**ZIMBABWE EZEKIEL GUTI UNIVERSITY**



**FACULTY OF COMMERCE**

**BCom Accounting**

**BCom (Hons) Marketing**

**BA (Hons) Theology**

**BED Education**

**UWC100: INTRODUCTION TO COMPUTERS**

**Time allowed: 3 hours**

**Date: June 2016**

**Total marks: 100**

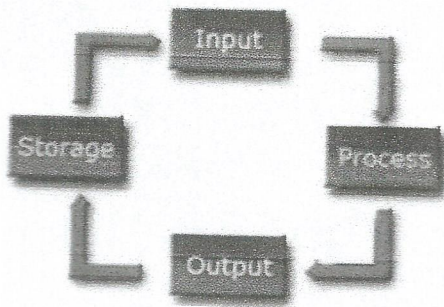
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**Instructions to candidates**

- The paper consist of **five (5)** questions
- Each question carries **25** marks
- Answer **any four (4)** questions
- Start a new question on a fresh page

## QUESTION 1

- a) Define the term data processing. [2]
- b) Briefly explain the following forms of data processing.
- i. Interactive Processing [2]
  - i. Transaction Processing [2]
  - ii. Real-Time processing [2]
- c) The following figure is an illustration of the Stages of the Data Processing Cycle.



- Briefly explain the following the stages and give an example where applicable [4]
- d) Describe batch processing and outline all the stages in a batch processing system. [8]
- e) Briefly explain Twisted pair cable and Coaxial cable transmission media and relate some security challenges on each. [5]

## QUESTION 2

- a) Define Email (Electronic Mail) [2]
- b) Briefly explain how Email (Electronic Mail) works. [6]
- c) Outline the major difference between downloading and uploading. Give **one** example in each case where each one is applicable. [4]
- d) Most search engines use the following search operators. Briefly explain the meaning of each.
  - i. Inclusion/exclusion operators [2]
  - ii. Wild cards [2]
  - iii. Phrases [2]
  - iv. Boolean operators [2]
- e) Discuss the term is e-business in relation to your degree programme. [5]

## QUESTION 3

- a) With the aid of well labelled diagrams, describe the following network topologies and give two advantages and two disadvantages of each:
  - i. Mesh [4]
  - ii. Ring [4]
  - iii. Star [4]
  - iv. Bus [4]
- b) List and explain various reasons for which the networks are attacked by intruders. [4]
- c) Explain the terms *Insertion anomaly* and *Deletion anomaly* as used in databases. [5]

#### QUESTION 4

- a) Briefly explain the following terms.
- i. Virus [2]
  - ii. Worm [2]
  - iii. Trojan horse [2]
  - iv. Malware [2]
- b) The Infection code, Payload and the Trigger are the major components of a computer virus. Briefly explain these components. [6]
- c) How can we safeguard computers from viruses? [3]
- d) Are Linux systems safe from programs? [3]
- e) Outline the basic methods of application software acquisition. [5]

#### QUESTION 5

- i) Briefly explain the following terms and include one example in each case.
- a) Cyber crime [4]
  - b) Hacking [4]
  - c) Cracking [4]
  - d) Spamming [4]
  - e) Scamming [4]
- ii) Describe briefly the advantages of high level language. [5]

\*\*\*\*\*END OF EXAMINATION\*\*\*\*\*