



DICT LEVEL I

INTRODUCTION TO COMPUTING

MONDAY: 30 August 2021.

Time Allowed: 3 hours.

Answer ALL questions. Marks allocated to each question are shown at the end of the question.

QUESTION ONE

- (a) (i) Explain the term “data processing”. (2 marks)
- (ii) Outline four factors to consider when choosing a data processing mode. (4 marks)
- (b) Summarise four examples of a Transactions Processing System. (4 marks)
- (c) Identify four features of the Fifth Generation computers. (4 marks)
- (d) Analyse six components of a Computer System. (6 marks)

(Total: 20 marks)

QUESTION TWO

- (a) (i) Using an example, explain the term “secondary storage”. (2 marks)
- (ii) Identify four ways in which secondary storage differs from main storage. (4 marks)
- (b) Suggest three different types of Information Systems used by operational managers. (3 marks)
- (c) Chuma Bora Ltd. is a company dealing in construction materials. The management has decided to automate its operations.

Required:

Citing a reason in each case, advise Chuma Bora Ltd. on the following items that should be acquired:

- (i) Three computer hardware devices. (3 marks)
- (ii) Three computer software. (3 marks)
- (d) Propose five technical or logical controls that could be used in information systems security. (5 marks)

(Total: 20 marks)

QUESTION THREE

- (a) Differentiate between “Data breach” and “Data security” as used in data processing. (4 marks)
- (b) Identify eight different career streams available in information and communication technology (ICT) industry in your country. (8 marks)
- (c) Examine four factors to consider when choosing between a desktop computer and a laptop computer. (8 marks)

(Total: 20 marks)

QUESTION FOUR

- (a) Outline five types of utility software used in Computer Systems. (5 marks)
 - (b) Summarise five benefits of using cloud storage for a business organisation. (5 marks)
 - (c) Suggest six ways on how information systems facilitate Supply Chain Management in an organisation. (6 marks)
 - (d) Distinguish between “RAM” and “ROM” as used in computing. (4 marks)
- (Total: 20 marks)**

QUESTION FIVE

- (a) Highlight five ways of ensuring information system integrity is maintained in an organisation. (5 marks)
 - (b) Discuss four information security threats that could be faced by a Commercial Bank. (8 marks)
 - (c) Summarise four challenges of information systems faced by different organisations. (4 marks)
 - (d) Citing three organisations, analyse how the use of information system ensured continuity of business operations during the Covid-19 pandemic. (3 marks)
- (Total: 20 marks)**
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