



kasneb

DICT LEVEL I

INTRODUCTION TO COMPUTING

TUESDAY: 26 November 2019.

Time Allowed: 3 hours.

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

QUESTION ONE

- (a) Outline five features of the third generation computers. (5 marks)
- (b) With reference to data security, propose seven ways of minimising data integrity risks. (7 marks)
- (c) State four types of human computer interfaces (HCI): (4 marks)
- (d) Highlight four components of an enterprise resource planning (ERP) system. (4 marks)

(Total: 20 marks)

QUESTION TWO

- (a) Explain the following acronyms as used in information communication technology (ICT) hardware:
- (i) PSU. (2 marks)
- (ii) CMOS. (2 marks)
- (iii) SSD. (2 marks)
- (b) Analyse three differences between a “tailor made software” and “off-the-shelf software”. (6 marks)
- (c) The use of internet has currently changed the face of business in the country. Assess in four ways how the internet has impacted the conduct of business. (4 marks)
- (d) Citing examples, clearly distinguish between an “executable file” and a “system file”. (4 marks)

(Total: 20 marks)

QUESTION THREE

- (a) Describe each of the following types of application software:
- (i) Freeware. (2 marks)
- (ii) Shareware. (2 marks)
- (iii) Public-domain software. (2 marks)
- (b) Summarise five factors to consider when purchasing a printer. (5 marks)
- (c) Explain three ways through which spyware could interfere with a user’s computer system. (6 marks)
- (d) Argue three cases against the use of magnetic tape as storage device. (3 marks)

(Total: 20 marks)

QUESTION FOUR

- (a) Outline three reasons why thin film transistor (TFT) monitors are replacing cathode ray tubes (CRTs). (3 marks)
 - (b) Summarise three differences between “authentication” and “authorisation” as used in information systems security. (6 marks)
 - (c) List five disadvantages of using questionnaires as a method of data collection. (5 marks)
 - (d) In an information communication technology (ICT) seminar, one of the facilitators noted that “one of the information systems security threat is social engineering”.
With reference to the above statement, describe three social engineering attacks. (6 marks)
- (Total: 20 marks)**

QUESTION FIVE

- (a) Explain each of the following characteristics of a sub system:
 - (i) Decoupling. (2 marks)
 - (ii) Decomposition. (2 marks)
 - (iii) Simplification. (2 marks)
 - (b) Examine five roles of information systems in the management of a business organisation. (5 marks)
 - (c) (i) Explain the term “microchip” as used in information technology. (1 mark)
(ii) Besides being used in a computer, state three other applications where a microchip is used. (3 marks)
 - (d) With reference to the impact of information communication technology (ICT) in society, analyse five applications of ICT in school administration. (5 marks)
- (Total: 20 marks)**
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