

KASNEB

DICT LEVEL I

INTRODUCTION TO COMPUTING

MONDAY: 21 November 2016.

Time Allowed: 3 hours.

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

QUESTION ONE

- (a) Identify five factors that could prevent companies from using Information Communication Technology (ICT) in doing business. (5 marks)
- (b) Describe the following types of software:
- (i) Freeware. (2 marks)
 - (ii) Shareware. (2 marks)
 - (iii) Public domain software. (2 marks)
- (c) State four factors to consider when acquiring an internal hard disk of a computer. (4 marks)
- (d) Outline five characteristics of third generation computers. (5 marks)

(Total: 20 marks)

QUESTION TWO

- (a) (i) Explain the term "computer port". (2 marks)
- (ii) Describe four examples of computer ports as used in computer systems. (8 marks)
- (b) Differentiate between a master file and a transaction file using the following criteria:
- (i) Nature of storage. (2 marks)
 - (ii) Type of data. (2 marks)
 - (iii) Frequency of update. (2 marks)
- (c) Outline four functions of an operating system. (4 marks)

(Total: 20 marks)

QUESTION THREE

- (a) Identify four advantages of using touch screen input devices. (4 marks)
- (b) Citing an example in each case, describe two common computer user interfaces. (6 marks)
- (c) Explain two inherent disadvantages of batch processing. (4 marks)
- (d) Explain the following concepts of an information system:
- (i) Environment. (2 marks)
 - (ii) Feedback. (2 marks)
 - (iii) Control. (2 marks)

(Total: 20 marks)

QUESTION FOUR

- (a) In relation to the information system threats, distinguish between a “hacker” and a “cracker”. (4 marks)
- (b) Explain four reasons why information management is important to an organisation. (8 marks)
- (c) Explain three criteria that could be used to classify computer memory. (6 marks)
- (d) Explain the term “teleworking” as used in information communication technology (ICT). (2 marks)

(Total: 20 marks)

QUESTION FIVE

- (a) Outline four features of an Executive Information System (EIS). (4 marks)
- (b) Identify four devices that act as both input and output to a computer. (4 marks)
- (c) Explain three factors that determine the mode of data processing in an organisation. (6 marks)
- (d) Explain the term “virtual computing” as used in computer systems. (2 marks)
- (e) Differentiate between a Control Unit (CU) and Arithmetic Logic Unit (ALU) of a computer system. (4 marks)

(Total: 20 marks)

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