

KASNEB

DICT LEVEL I

INTRODUCTION TO COMPUTING

MONDAY: 23 May 2016.

Time Allowed: 3 hours.

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

QUESTION ONE

- (a) Distinguish between the following terms as used in computer systems:
- (i) "Multiprogramming" and "multiprocessing". (4 marks)
 - (ii) "Program" and "process". (4 marks)
- (b) Identify four symptoms of a computer infected by a virus. (4 marks)
- (c) Explain four challenges faced by businesses from the use of management information systems. (8 marks)
- (Total: 20 marks)**

QUESTION TWO

- (a) List two advantages of using a memory stick. (2 marks)
- (b) (i) Define the term "processor register". (2 marks)
- (ii) Explain one reason why a processor requires a register. (2 marks)
- (c) Describe three features of a graphical user interface (GUI). (6 marks)
- (d) Outline four types of utility programs. (4 marks)
- (e) Highlight four uses of information communication technology (ICT) in the education sector. (4 marks)
- (Total: 20 marks)**

QUESTION THREE

- (a) Differentiate between a printer and a plotter based on the following features:
- (i) Type of print. (2 marks)
 - (ii) Method of print. (2 marks)
- (b) Contrast between "optical character recognition" and "optical mark recognition" using the following criteria:
- (i) Application area. (2 marks)
 - (ii) What is recognised. (2 marks)
- (c) Highlight six advantages of off the shelf software. (6 marks)
- (d) Outline six essential characteristics of a good information system. (6 marks)
- (Total: 20 marks)**

QUESTION FOUR

- (a) Highlight four advantages of electronic data processing. (4 marks)
- (b) Citing an example in each case, differentiate between "office automation system" and "knowledge work system". (4 marks)

- (c) Describe four types of printers. (8 marks)
- (d) Explain two methods of eliminating data entry errors. (4 marks)
- (Total: 20 marks)**

QUESTION FIVE

- (a) Explain the following visual display terminals:
- (i) Dumb terminal. (2 marks)
 - (ii) Smart terminal. (2 marks)
 - (iii) Intelligent terminal. (2 marks)
- (b) List four types of smartphone operating systems. (4 marks)
- (c) Highlight six advantages of sequential file organisation. (6 marks)
- (d) Explain two reasons why it is important to manage computer files. (4 marks)
- (Total: 20 marks)**
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