KASNEB
ATD LEVEL I
DCM LEVEL I
INFORMATION COMMUNICATION TECHNOLOGY

TUESDAY: 24 May 2016.

Answer any FIVE questions.

ALL questions carry equal marks.

Time Allowed: 3 hours.

QUESTION ONE
(a) State four pointing devices used in computer systems. (4 marks)
(b) Explain three benefits that might accrue to a business from using the internet. (6 marks)
(c) Differentiate between “data” and “information” in the context of information system. (4 marks)
(d) Describe three goals of networking computers in an organisation. (6 marks)

(Total: 20 marks)

QUESTION TWO
(a) Explain the following classes of computers:
(i) Analog. (2 marks)
(ii) Digital. (2 marks)
(iii) Hybrid. (2 marks)
(b) Outline six functions of an operating system. (6 marks)
(c) Highlight four factors that could influence the design of a computer file. (4 marks)
(d) (i) Define the term “web browser”. (2 marks)
(ii) State two commonly used web browsers. (2 marks)

(Total: 20 marks)

QUESTION THREE
(a) Distinguish between “cold booting” and “warm booting” as used in computer systems. (4 marks)
(b) Highlight six causes of computer failures. (6 marks)
(c) Describe five basic operations of a computer system. (10 marks)

(Total: 20 marks)

QUESTION FOUR
(a) Outline two advantages of laser printers. (2 marks)
(b) Highlight four characteristics of fifth generation computers. (4 marks)
(c) Differentiate between “assembly language” and “high level language” in the context of programming. (4 marks)
(d) Explain two reasons for using auxiliary storage devices in computer systems. (4 marks)
(e) Describe three components of the central processing unit (CPU) of a computer. (6 marks)

(Total: 20 marks)

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QUESTION FIVE
(a) Explain four factors to consider when buying a computer. (8 marks)

(b) With the aid of a diagram, describe the following types of network topologies:
   (i) Bus. (3 marks)
   (ii) Star. (3 marks)
   (iii) Ring. (3 marks)
   (iv) Mesh. (3 marks)
   (Total: 20 marks)

QUESTION SIX
(a) Highlight four uses of information communication technology (ICT) in the health sector. (4 marks)

(b) (i) List four types of paragraph alignment used in a presentation program. (4 marks)
   (ii) State three ways of fitting overflowing word processing content on a single page. (3 marks)
   (iii) Highlight five advantages of using word processor. (5 marks)

(c) Outline four computing tools designed to facilitate online personal interaction. (4 marks)
   (Total: 20 marks)

QUESTION SEVEN
(a) Highlight six reasons for changing from manual to computerised systems. (6 marks)

(b) Distinguish between "count function" and "sum function" as used in a spreadsheet. (4 marks)

(c) Explain five components of an information system. (10 marks)
   (Total: 20 marks)