

KASNEB

ATD LEVEL I

DCM LEVEL I

INFORMATION COMMUNICATION TECHNOLOGY

TUESDAY: 24 May 2016.

Time Allowed: 3 hours.

Answer any FIVE questions.

ALL questions carry equal marks.

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)**

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)**
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