KASNEB

ATD LEVEL I

DCM LEVEL I

INFORMATION COMMUNICATION TECHNOLOGY

WEDNESDAY: 18 November 2015.

Answer any FIVE questions.

Time Allowed: 3 hours.

ALL questions carry equal marks.

QUESTION ONE

(a) List four household appliances that use computer control system. (4 marks)

(b) Highlight six uses of information communication technology (ICT) in the entertainment industry. (6 marks)

(c) Distinguish between “serial port” and “parallel port” computer interfaces. (4 marks)

(d) Explain three disadvantages of having computers networked in an organisation. (6 marks)

(Total: 20 marks)

QUESTION TWO

(a) (i) Describe the purpose of a search engine. (2 marks)

(ii) State two examples of popular internet search engines. (2 marks)

(b) Highlight two disadvantages of a multi-user operating system. (4 marks)

(c) Explain the following terms as used in information security:

(i) Firewall. (2 marks)

(ii) Blacklisting. (2 marks)

(d) Giving an example in each case, distinguish between “system software” and “application software”. (4 marks)

(e) State two commonly used computer input devices. (2 marks)

(Total: 20 marks)

QUESTION THREE

(a) State two advantages of using a memory stick as a data storage device. (2 marks)

(b) Differentiate between “hardware” and “software” as used in computer systems. (4 marks)

(c) Giving an example in each case, state three criteria of classifying operating systems. (6 marks)

(d) Explain three advantages of secondary storage devices of a computer. (6 marks)

(e) Identify two limitations of a computer. (2 marks)

(Total: 20 marks)

QUESTION FOUR

(a) Highlight four security threats to an information system. (4 marks)

(b) Distinguish between “open source software” and “proprietary software”. (4 marks)

(c) Outline four benefits of using e-commerce in a business. (4 marks)
(d) Explain two ways in which the size of a file could influence the choice of the file processing method.  
(2 marks)

(e) Outline three characteristics of microcomputing technology.  
(3 marks)

(f) Highlight three access permissions that could be assigned to a file.  
(3 marks)

(Total: 20 marks)

QUESTION FIVE
(a) Highlight four benefits of using social networking sites as a means of communication.  
(4 marks)

(b) Describe the three buses in a computer system unit.  
(6 marks)

(c) List four advantages of a presentation software.  
(4 marks)

(d) Differentiate between "word processor" and "spreadsheet" applications.  
(4 marks)

(e) Outline two data formats available in spreadsheets.  
(2 marks)

(Total: 20 marks)

QUESTION SIX
(a) Highlight four symptoms of a computer infected by a virus.  
(4 marks)

(b) Explain three roles of internet service providers (ISPs).  
(6 marks)

(c) Outline three disadvantages of star topology network.  
(3 marks)

(d) Describe three advantages of computerised accounting software.  
(3 marks)

(e) Differentiate between "absolute referencing" and "relative referencing" as used in a spreadsheet.  
(4 marks)

(Total: 20 marks)

QUESTION SEVEN
(a) Explain the function of the following devices in Information Communication Technology (ICT):

(i) Optical Character Reader (OCR).  
(2 marks)

(ii) Magnetic Ink Character Reader (MICR).  
(2 marks)

(iii) Barcode reader.  
(2 marks)

(b) Explain three disadvantages associated with outsourcing of Information Communication Technology (ICT) services.  
(6 marks)

(c) Highlight four reasons for backing up data.  
(4 marks)

(d) Distinguish between "Wi-Fi" and "Hotspot" as used in computer networks.  
(4 marks)

(Total: 20 marks)