

KASNEB

ATD LEVEL I

DCM LEVEL I

INFORMATION COMMUNICATION TECHNOLOGY

WEDNESDAY: 18 November 2015.

Time Allowed: 3 hours.

Answer any FIVE questions.

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”. (6 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)