



CAMS LEVEL I

FUNDAMENTAL ICT SKILLS

WEDNESDAY: 27 November 2019.

Time Allowed: 3 hours.

Answer any FIVE questions.

ALL questions carry equal marks.

QUESTION ONE

- (a) (i) Define the term “booting up process”. (1 mark)
- (a) (ii) Explain why booting process is essential. (2 marks)
- (b) Examine six threats to data security in a business environment. (6 marks)
- (c) State five hardware components of a computer system. (5 marks)
- (d) Suggest six factors that could prevent small firms from actively adopting and using information communication technology (ICT) in their businesses. (6 marks)

(Total: 20 marks)

QUESTION TWO

- (a) Describe three uses of information systems in an organisation. (6 marks)
- (b) (i) Identify two general types of computer files. (2 marks)
- (b) (ii) Distinguish between a data file and a database. (2 marks)
- (c) (i) State three input devices and two output devices in a point of sale system in a supermarket. (5 marks)
- (c) (ii) For each of the stated devices in (c) (i) above, explain why it is necessary in the point of sale system. (5 marks)

(Total: 20 marks)

QUESTION THREE

- (a) Differentiate between a bit and a byte. (2 marks)
- (b) Explain the function of the following keyboard keys:
 - (i) ESC. (1 mark)
 - (ii) Home. (1 mark)
 - (iii) End. (1 mark)
 - (iv) Insert. (1 mark)
- (c) Distinguish between file maintenance and file updating. (2 marks)
- (d) Highlight five factors that determine the processing power of a computer. (5 marks)

- (e) Explain how the following applications are intended to help a computer user:
- (i) Word processor. (1 mark)
 - (ii) Spreadsheet. (1 mark)
 - (iii) Database. (1 mark)
- (f) Examine four factors that discourage the setting up of a network in an organisation. (4 marks)
- (Total: 20 marks)**

QUESTION FOUR

- (a) Outline two disadvantages of each of the following:
- (i) Cache memory. (2 marks)
 - (ii) Drum printer. (2 marks)
 - (iii) Laser printer. (2 marks)
 - (iv) CRT monitor. (2 marks)
- (b) Computer software could be categorised into systems software and applications software.
- Required:**
- (i) Describe four types of systems software. (8 marks)
 - (ii) Distinguish between horizontal market software and vertical market software. (4 marks)
- (Total: 20 marks)**

QUESTION FIVE

- (a) List four benefits associated with storing data in optical media over conventional magnetic disks. (4 marks)
- (b) Identify three application areas where you would recommend the use of a supercomputer. (3 marks)
- (c) Your friend has recommended you purchase a computer with the following specifications:
- Processor – Dual core 2.4GHz + i5 or i7 series Intel processor
 - RAM – 16GB
 - Hard Drive – 256GB or larger solid state hard drive
 - Graphics card – Any with display port/HDMI support
 - Monitor – 23” wide screen LCD
 - Backup Device – External hard drive and or USB flash Drive
- Required:**
Using the above information:
- (i) State the size of the screen. (1 mark)
 - (ii) State the processor speed. (1 mark)
 - (iii) Explain the meaning of Dual Core. (1 mark)
 - (iv) Write the abbreviation HDMI in full. (1 mark)
 - (v) Write the initials USB in full. (1 mark)
- (d) Highlight four qualities of good information. (4 marks)
- (e) Outline two advantages and two disadvantages of Bus network topology. (4 marks)
- (Total: 20 marks)**

QUESTION SIX

- (a) In each case, state two implications associated with node increase in the following network topologies:
 - (i) Star. (2 marks)
 - (ii) Bus. (2 marks)
 - (iii) Mesh. (2 marks)
 - (b) (i) Examine four benefits of computerisation. (4 marks)
 - (ii) Describe four roles played by information communication technology (ICT) in the globalisation process. (4 marks)
 - (c) Identify four factors that contribute to the digital divide. (4 marks)
 - (d) Outline two symptoms of repetitive strain injury (RSI). (2 marks)
- (Total: 20 marks)**

QUESTION SEVEN

- (a) Giving an example in each case, differentiate between “random access media” and “direct access media”. (4 marks)
 - (b) State the unit of measurements for the following computer performance metrics:
 - (i) Clock rate. (1 mark)
 - (ii) Cache size. (1 mark)
 - (iii) Word size. (1 mark)
 - (iv) Bus width. (1 mark)
 - (c) Outline four computing tools designed to facilitate online personal interaction. (4 marks)
 - (d) One of the basic functions of an operating system is device management.
Highlight two activities related to device management. (2 marks)
 - (e) Describe three challenges related to internet oriented marketing. (6 marks)
- (Total: 20 marks)**
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