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CAMS LEVEL I

FUNDAMENTAL ICT SKILLS

TUESDAY: 27 November 2018.

Time Allowed: 3 hours.

Answer any FIVE questions.

ALL questions carry equal marks.

QUESTION ONE

- (a) Outline four advantages of optical storage media over flash disks. (4 marks)
- (b) State the applications used to create the following files:
- (i) Employee.Docx (1 mark)
 - (ii) Salary.Xlsx (1 mark)
 - (iii) Student.Pptx (1 mark)
 - (iv) Marks.Accdb (1 mark)
- (c) Highlight four ways that could be used to improve the performance of a computer. (4 marks)
- (d) Differentiate between email and instant messaging. (2 marks)
- (e) Explain six ways in which the use of social media could enhance the growth of a business organisation. (6 marks)
- (Total: 20 marks)**

QUESTION TWO

- (a) Compare pre-written software and bespoke software based on the following factors:
- (i) Cost. (2 marks)
 - (ii) Ability to meet specific (unique) user's needs. (2 marks)
 - (iii) Documentation standards. (2 marks)
 - (iv) Error rate. (2 marks)
- (b) Outline two characteristics of each of the following storage medium:
- (i) Primary storage. (2 marks)
 - (ii) Secondary storage. (2 marks)
- (c) Explain the area of application of each of the following peripheral devices:
- (i) Joystick. (1 mark)
 - (ii) Light pen. (1 mark)
 - (iii) Scanner. (1 mark)
 - (iv) MICR. (1 mark)
 - (v) OCR. (1 mark)
 - (vi) OMR. (1 mark)
- (d) Highlight two advantages of using a mouse as an input device over a keyboard. (2 marks)

(Total: 20 marks)

QUESTION THREE

- (a) Explain the meaning of the following terms as used in computing:
- (i) Register. (2 marks)
 - (ii) Bus. (2 marks)
 - (iii) Cache memory. (2 marks)
- (b) Using examples, explain three components of a computer system. (6 marks)
- (c) The Kenyan government has been promoting and setting up digital villages in the rural areas.
- (i) Define the term “digital village”. (2 marks)
 - (ii) Describe two ways in which digital villages could benefit the youths. (2 marks)
- (d) There has been concern over the need for your business to increase the protection and security of your data from illegal access by outside parties.
- Required:**
- (i) Outline two ways that outside parties could access your data illegally. (2 marks)
 - (ii) For each of the listed ways above, describe a measure you could put in place to prevent the illegal access. (2 marks)

(Total: 20 marks)

QUESTION FOUR

- (a) Define the term “dual core processor”. (2 marks)
- (b) Explain the importance of computer boot process. (2 marks)
- (c) There are different types of application software that an organisation could use to increase productivity. Stating the use in each case, describe three of these software. (6 marks)
- (d) Highlight three advantages and two disadvantages of installing a network in an organisation. (5 marks)
- (e) One of the major functions of an operating system is resource management. Outline three resources that are managed by an operating system. (3 marks)
- (f) Explain the meaning of the term “clock speed” as used in computing. (2 marks)

(Total: 20 marks)

QUESTION FIVE

- (a) Describe the following software terms:
- (i) Open source software. (2 marks)
 - (ii) Integrated software. (2 marks)
- (b) List four features of fifth generation computers. (4 marks)
- (c) Citing appropriate examples, explain the following types of computer files:
- (i) Flat file. (2 marks)
 - (ii) Master file. (2 marks)
 - (iii) Transaction file. (2 marks)
 - (iv) Reference file. (2 marks)
- (d) Explain the main function of the following parts of the central processing unit:
- (i) Arithmetic logic unit. (2 marks)
 - (ii) Control unit. (2 marks)

(Total: 20 marks)

QUESTION SIX

- (a) Describe the following types of computers:
 - (i) Digital computer. (2 marks)
 - (ii) Analog computer. (2 marks)
 - (iii) Hybrid computer. (2 marks)
 - (b) Distinguish between “tactical decisions” and “operational decisions” as used in information systems. (4 marks)
 - (c) Describe the following types of enterprise systems:
 - (i) Supply chain management system. (2 marks)
 - (ii) Enterprise resource planning system. (2 marks)
 - (iii) Customer relationship management system. (2 marks)
 - (d) Summarise the four major components of computer hardware. (4 marks)
- (Total: 20 marks)**

QUESTION SEVEN

- (a) Describe three components of an e-mail address. (3 marks)
 - (b) State three factors that influence the choice of a back up device. (3 marks)
 - (c) Explain the following elements of the data hierarchy:
 - (i) Character. (2 marks)
 - (ii) Field. (2 marks)
 - (iii) Record. (2 marks)
 - (iv) File. (2 marks)
 - (d) Explain the following internet related concepts:
 - (i) Hot spot. (2 marks)
 - (ii) World Wide Web. (2 marks)
 - (iii) Web portal. (2 marks)
- (Total: 20 marks)**
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