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CPA PART II SECTION 4

CS PART II SECTION 4

CCP PART II SECTION 4

MANAGEMENT INFORMATION SYSTEMS

FRIDAY: 25 May 2018.   **Time Allowed: 3 hours.**

Answer any FIVE questions.   ALL questions carry equal marks.

QUESTION ONE
(a)   Distinguish between the following types of e-commerce:

     (i)   "Social e-commerce" and "local e-commerce".   (4 marks)

     (ii)   "Mobile e-commerce" and "consumer-to-consumer e-commerce".   (4 marks)

(b)   Citing four unique features of e-commerce, explain the significance of each feature to a business.   (8 marks)

(c)   Describe the term "e-distributor" as used in e-commerce.   (2 marks)

(d)   Distinguish between "digital cash" and "virtual currency" as used in digital payments.   (2 marks)
                                                                                                          (Total: 20 marks)

QUESTION TWO
(a)   Differentiate between the following terminologies as used in management information systems:

     (i)   "Green computing" and "cloud computing".   (4 marks)

     (ii)   "Loss of infrastructure" and "denial of service".   (4 marks)

(b)   Describe three problems of the systems development lifecycle (SDLC) model of developing information systems.
                                                                                                          (6 marks)

(c)   Connect Ventures Ltd. has recently embraced Information Communication Technology (ICT) governance as one of its key strategic policies.

     Required:
     Identify six benefits Connect Ventures Ltd. might enjoy from embracing ICT governance in the organisation.   (6 marks)
                                                                                                          (Total: 20 marks)

QUESTION THREE
(a)   Using examples, analyse three benefits of telecommunication networks in business.   (6 marks)

(b)   Summarise five steps of the transaction processing cycle in a transaction processing system.   (5 marks)

(c)   Discuss six essential accounting information systems used in business.   (6 marks)

(d)   Explain three roles of enterprise collaboration systems in business.   (3 marks)
                                                                                                          (Total: 20 marks)

QUESTION FOUR

(a) The ICT Manager of Usalama Ltd. is concerned about the security of the organisation's information. He has proposed that all the current passwords be changed into more secure passwords.

Required:
Highlight six guidelines that must be followed to ensure that the new passwords cannot be easily cracked.   (6 marks)

(b) You have been asked to prepare a document on disaster recovery.

Required:
In the context of Information Communication Technology (ICT) risk management, propose three items that you would include in the document.   (6 marks)

(c) Ufanisi Ltd. is a newly established organisation. The company is planning to network all the computers and has sought advice from the IT Consultant. The Consultant has advised Ufanisi Ltd. to set up a peer-to-peer network and later on convert to client-server network.

Required:
Justify the advice given by the IT Consultant.   (8 marks)
(Total: 20 marks)

QUESTION FIVE

(a) Explain three roles of management during the development of an information system in an organisation.   (6 marks)

(b) Highlight three types of financial costs that an organisation might incur due to non compliance to Information Communication Technology (ICT) standards.   (3 marks)

(c) Suggest four reasons why it is necessary for an organisation to backup its data.   (4 marks)

(d) (i) Explain the term "database mirroring" as used in information systems.   (1 mark)

(ii) Evaluate three benefits an organisation might derive from database mirroring.   (6 marks)
(Total: 20 marks)

QUESTION SIX

(a) Organisations and Information Communication Technology (ICT) professionals are required to comply with legal framework when introducing and using information systems. In addition, there will normally be a code of practice.

Required:
(i) Citing a suitable example, explain the term "code of practice".   (3 marks)

(ii) Examine two ways in which institutions and societies promote professionalism for individuals within the ICT industry.   (4 marks)

(b) Describe the nature of each of the following reports generated by a Management Information System (MIS):

(i) Push reports.   (2 marks)

(ii) Exception reports.   (2 marks)

(c) Lynnet Wanjiru has been presented with the following features of an information system:

- High security.
- Interactive.
- Network connections, email access, face book.
- Access to internal and external data.
- Modelling and analysis capability.
- Drill up and down.
- What-if analysis.
- Ad hoc reports.

Required:

(i) Identify the information system described above. (1 mark)

(ii) Suggest the level in management where the system identified in (c)(i) above is applied. (1 mark)

(iii) Highlight five benefits of the system identified in (c)(i) above to an organisation. (5 marks)

(d) Debrix Company has installed a biometric system to control access to its offices.

Required:
Highlight two examples of biometric data that could be used in such a system. (2 marks)

(Total: 20 marks)

QUESTION SEVEN

(a) Distinguish between "a multiplexer" and "a front-end processor". (2 marks)

(b) Analyse four major characteristics of a local area network. (4 marks)

(c) Examine three functions of an Information Communication Technology (ICT) centre towards end-user computing. (3 marks)

(d) Explain five challenges that might hinder the successful alignment of information systems to the organisation's corporate strategy. (5 marks)

(e) Suggest six measures that employers could put in place to deal with internet abuse at the workplace. (6 marks)

(Total: 20 marks)

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