kasneb

DICT LEVEL II

INTERNET SKILLS

MONDAY: 17 May 2021.   **Time Allowed: 3 hours.**

Answer ALL questions. Marks allocated to each question are shown at the end of the question.

QUESTION ONE

(a)   Explain three safety and internet security measures that protect online users when using the internet.   (3 marks)

(b)   Outline two architectural requirements of client/server architecture.   (2 marks)

(c)   Illustrate the application of 3-tier client/server architecture in the following examples:

    (i)   ATM machine.   (2 marks)

    (ii)   Web application.   (2 marks)

(d)   Explain three email protocols used in internet communication.   (6 marks)

(e)   Describe each of the following communication tools as used in internet communication:

    (i)   Weblogs.   (2 marks)
    (ii)   Pod casting.   (2 marks)
    (iii)   Wikis.   (1 mark)
                                                    (Total: 20 marks)

QUESTION TWO

(a)   When searching for information in the internet at times one can get a lot of information that is unnecessary.

    Outline four ways one could narrow the search to only the necessary information.   (4 marks)

(b)   Describe the following HTTP features that makes it a simple but powerful communication protocol:

    (i)   HTTP is connectionless.   (2 marks)
    (ii)   HTTP is media independent.   (2 marks)
    (iii)   HTTP is stateless.   (2 marks)

(c)   Discuss five advantages that an organisation could get by implementing the client-server computing architecture.
                                                    (10 marks)
                                                    (Total: 20 marks)

QUESTION THREE

(a)   The use of the internet in large scale has led corporations and governments to define governance and regulations of its use.

    Describe four issues that should be considered to regulate internet use.   (8 marks)

(b)   Enock is a Web Administrator for an e-Commerce site.

    Explain to him four common e-Commerce security flaws that could lead to a compromise of the site.   (8 marks)

(c)   Differentiate between shell accounts and Point to Point Protocol (PPP) accounts as used in internet communication.   (4 marks)
                                                    (Total: 20 marks)

QUESTION FOUR

(a)   Outline two disadvantages of using each of the following types of internet connections:

        (i)   Analog modem.   (2 marks)

        (ii)   ISDN.   (2 marks)

        (iii)   Digital Subscriber line (DSL).   (2 marks)

        (iv)   Satellite.   (2 marks)

(b)   Discuss five challenges that Web Administrators face when managing web content for an organisation. (10 marks)

(c)   Differentiate between Wifi and wiMAX.   (2 marks)
        (Total: 20 marks)

QUESTION FIVE

(a)   Discuss four features of a Web Server that enable it to execute its mandate as a provider and manager on web based services within a network.   (8 marks)

(b)   Highlight four techniques used to manage internet security.   (4 marks)

(c)   Assess five positive effects of the internet to the society.   (5 marks)

(d)   Using an example, describe the anatomy of a typical URL.   (3 marks)
        (Total: 20 marks)

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