KASNEB

DICT LEVEL II

INTERNET SKILLS

MONDAY: 23 May 2016.   Time Allowed: 3 hours.

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

QUESTION ONE
(a)   Describe each of the following in the context of internet connectivity:

      (i)   Hosting.   (2 marks)

      (ii)   IP address.   (2 marks)

      (iii)   Domain name.   (2 marks)

      (iv)   Uniform resource locator (URL).   (2 marks)

(b)   Assess the impact of the following internet issues to the society:

      (i)   Hyperlinking.   (3 marks)

      (ii)   Framing.   (3 marks)

(c)   Explain how you could identify a 4G enabled smartphone.   (2 marks)

(d)   Highlight four trends in internet development and web hosting.   (4 marks)
                                              (Total: 20 marks)

QUESTION TWO
(a)   With the aid of a diagram, explain how web users utilise browsers and servers to access files from the internet.
                                              (4 marks)

(b)   Highlight four functions of IMAP protocol.   (4 marks)

(c)   Explain four functions of internet governance forum (IGF).   (4 marks)

(d)   Outline three benefits of streaming media.   (3 marks)

(e)   Assess the socio-cultural concerns that might arise when using the internet.   (5 marks)
                                              (Total: 20 marks)

QUESTION THREE
(a)   Highlight five functions of a protocol in internet technology.   (5 marks)

(b)   Outline four techniques of ensuring that your browsing sessions are secure at individual and corporate level.
                                              (4 marks)

(c)   State three features of Transmission Control Protocol (TCP) that makes it suitable to stream real-time multimedia content.   (3 marks)

(d)   Explain two components of World Wide Web.   (4 marks)

(e)   Summarise the history of internet and World Wide Web.   (4 marks)
                                              (Total: 20 marks)

QUESTION FOUR

(a)   Summarise the importance of "airplane" mode feature in smartphones.   (2 marks)

(b)   Explain the relationship between IP address, port and a socket.   (4 marks)

(c)   Describe how the cyberspace is governed.   (3 marks)

(d)   Suggest three reasons why it could be hard to block junk emails.   (3 marks)

(e)   Distinguish between the following terms as used in internet technology:

     (i)   Common gateway interface (CGI) and servlet technology.   (4 marks)

     (ii)   Java script and Java applet.   (4 marks)
                                                                                        (Total: 20 marks)

QUESTION FIVE

(a)   With the aid of an example, explain how web directories work.   (2 marks)

(b)   Define the following terminologies in the context of search engines:

     (i)   Keyword scraper.   (2 marks)

     (ii)   Long tail.   (2 marks)

(c)   Compare and contrast between internet information server (IIS) and Apache web server.   (6 marks)

(d)   Outline four characteristics of a hypertext transfer protocol (HTTP) transaction.   (4 marks)

(e)   Analyse the relationship among ethical, social and political issues that are raised by the internet.   (4 marks)
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