



kasneb

**DICT LEVEL II**

**INTERNET SKILLS**

**MONDAY: 26 November 2018.**

**Time Allowed: 3 hours.**

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

**QUESTION ONE**

- (a) Highlight four challenges that a student might face in accessing and using the internet. (4 marks)
- (b) Distinguish between the terms “digital signature” and “digital subscriber”. (4 marks)
- (c) Enumerate three differences between “IMAP” and “POP 3”. (6 marks)
- (d) Explain the following internet based terms:
- (i) Blogging. (2 marks)
  - (ii) Phishing. (2 marks)
  - (iii) Telnet. (2 marks)

**(Total: 20 marks)**

**QUESTION TWO**

- (a) Explain two reasons why organisations prefer intranet to internet. (4 marks)
- (b) Tom Kiti has been tasked by his organisation to set up an instant messaging platform for communicating with customers.
- Required:**  
Identify four benefits that might be accrued by the organisation from such a platform. (4 marks)
- (c) Describe the following components of a web driver:
- (i) Controller. (2 marks)
  - (ii) Interpreter. (2 marks)
  - (iii) Client program. (2 marks)
- (d) Discuss three roles of international internet groups and corporations in governing the internet. (6 marks)

**(Total: 20 marks)**

**QUESTION THREE**

- (a) Outline four factors that a search engine algorithm might consider when deciding the information to show on a search engine results page. (4 marks)
- (b) Describe the following web crawling techniques:
- (i) Breadth-first crawling. (2 marks)
  - (ii) Depth-first crawling. (2 marks)
  - (iii) Targeted crawling. (2 marks)

(c) Jane Tunda would like to set up a cloud architecture to manage her business which has branches countrywide.

**Required:**

(i) Highlight four cloud computing models that Jane might consider. (4 marks)

(ii) Outline six factors that she should put into consideration before implementing the architecture for her business. (6 marks)

**(Total: 20 marks)**

**QUESTION FOUR**

(a) In relation to internet ethics, explain the following terms:

(i) Ethical behaviour. (2 marks)

(ii) Digital plagiarism. (2 marks)

(b) Citing one example, explain the term "search engine". (3 marks)

(c) Discuss three privacy challenges associated with the use of the internet. (3 marks)

(d) (i) Define the term "repository" as used in the client-server environment. (2 marks)

(ii) State three components of a repository. (3 marks)

(e) Teleworking is a method of working that is quickly gaining popularity all around the world.

**Required:**

(i) Outline three benefits of teleworking to employers. (3 marks)

(ii) State two disadvantages of teleworking to employees. (2 marks)

**(Total: 20 marks)**

**QUESTION FIVE**

(a) Citing suitable examples in each case, distinguish between "web server" and "web browser". (4 marks)

(b) John Yetu recently installed a router to his home office and discovered that the internet connection did not work.

**Required:**

(i) Summarise two possible causes of the lack of connectivity. (2 marks)

(ii) Advise John on how to address the issues in (b) (i) above. (2 marks)

(c) (i) Explain the term "identity theft". (2 marks)

(ii) Summarise four measures that might be put in place to avoid identity theft on the internet. (4 marks)

(d) Describe six goals of internet security. (6 marks)

**(Total: 20 marks)**

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