



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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