



**DICT LEVEL II**  
**INTERNET SKILLS**

**MONDAY: 21 May 2018.**

**Time Allowed: 3 hours.**

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

**QUESTION ONE**

- (a) Explain the term “web traffic” in the context of internet technology. (2 marks)
- (b) Outline four factors that a search engine considers when ranking and matching a website. (4 marks)
- (c) Cite two examples of each type of internet search engine listed below:
- (i) By source type. (2 marks)
  - (ii) By content type. (2 marks)
  - (iii) By interface type. (2 marks)
  - (iv) By topic. (2 marks)
- (d) Explain the role of the following components of an email-address:
- (i) Domain. (2 marks)
  - (ii) @ symbol. (2 marks)
  - (iii) Username. (2 marks)
- (Total: 20 marks)**

**QUESTION TWO**

- (a) Distinguish between “virtual networks” and “logical connection”. (4 marks)
- (b) Explain the following online learning concepts:
- (i) Virtual learning environment (VLE). (2 marks)
  - (ii) Learning management system (LMS). (2 marks)
- (c) (i) Explain the term “virtual collaboration” as used in internet technology. (2 marks)
- (ii) Assess five benefits of virtual collaboration in an organisation. (5 marks)
- (d) Highlight five benefits of implementing client/server computing in an organisation. (5 marks)
- (Total: 20 marks)**

**QUESTION THREE**

- (a) Outline two TCP ports and two UDP ports with their associated application layers. (4 marks)
- (b) Distinguish between “integrated services digital network (ISDN)” and “digital subscriber line (DSL)” in the context of internet connectivity. (4 marks)

- (c) Describe the following terms in relation to internet security:
- (i) Thression. (2 marks)
  - (ii) Distributed denial of service (DDOS). (2 marks)
- (d) Differentiate between the following concepts as used in internet technology:
- (i) "Network intelligence" and "network collision". (4 marks)
  - (ii) "Augmented reality (AR)" and "virtual reality (VR)". (4 marks)
- (Total: 20 marks)**

**QUESTION FOUR**

- (a) Explain the following internet security threats:
- (i) Bot. (1 mark)
  - (ii) Adware. (1 mark)
  - (iii) Scareware. (1 mark)
  - (iv) Mitmo. (1 mark)
- (b) Explain two advantages of the IMAP over the POP email protocols. (4 marks)
- (c) State four ways of hiding an IP address. (4 marks)
- (d) Outline two parameters of a web cookie. (2 marks)
- (e) Describe three cloud storage drives. (6 marks)
- (Total: 20 marks)**

**QUESTION FIVE**

- (a) Explain the following terms:
- (i) Web page. (2 marks)
  - (ii) Website. (2 marks)
  - (iii) Web server. (2 marks)
  - (iv) Search engine. (2 marks)
- (b) (i) Define the term "internet governance". (2 marks)
- (ii) List two internet governing bodies. (2 marks)
- (c) Explain the role of the following file transfer protocol (FTP) connection mode:
- (i) Active mode. (2 marks)
  - (ii) Passive mode. (2 marks)
- (d) Highlight the role of the following wireless application protocol (WAP) gateway architecture:
- (i) WAP datagram protocol. (1 mark)
  - (ii) Wireless transport layer security (WTLS). (1 mark)
  - (iii) WAP session protocol (WSP). (1 mark)
  - (iv) HTTP interface. (1 mark)
- (Total: 20 marks)**
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