

KASNEB

DICT LEVEL II

INTERNET SKILLS

TUESDAY: 17 November 2015.

Time Allowed: 3 hours.

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

QUESTION ONE

- (a) List three connection technologies that could be used to connect to internet service provider (ISP). (3 marks)
- (b) Giving an example in each case, explain the following Internet software products:
- (i) Web server. (2 marks)
 - (ii) Electronic mail routing. (2 marks)
- (c) (i) Distinguish between “webinar” and “webcast” in the context of the Internet. (4 marks)
- (ii) Explain three benefits of using webinar technology. (3 marks)
- (d) Analyse the relationship between “Internet of things (IOT)”, “big data” and “cloud computing”. (6 marks)
- (Total: 20 marks)**

QUESTION TWO

- (a) Explain the following terms in the context of Internet technology:
- (i) Uptime. (2 marks)
 - (ii) cPanel. (2 marks)
 - (iii) Web crawler. (2 marks)
- (b) (i) Describe how the domain name service (DNS) allows computers to contact each other, exchange email and display web pages. (5 marks)
- (ii) State three distinct causes of DNS errors. (3 marks)
- (c) Assess three ways in which social media technologies add value in organisational functions. (6 marks)
- (Total: 20 marks)**

QUESTION THREE

- (a) Propose four techniques of troubleshooting problems associated with internet connection sharing (ICS). (4 marks)
- (b) (i) Describe three examples of stateless protocol. (6 marks)
- (ii) Explain an advantage and a disadvantage of stateless protocol. (4 marks)
- (c) Describe three differences between “Internet” and “Ethernet”. (6 marks)
- (Total: 20 marks)**

QUESTION FOUR

- (a) Differentiate between “Internet bandwidth providers” (IBPs) and “Internet service providers” (ISPs). (4 marks)
- (b) Highlight four signs of an email with a phishing scam. (4 marks)

- (c) Giving an example in each case, explain the significance of the following characters in web searching process:
- (i) Plus operator (+). (2 marks)
 - (ii) Tilde operator (~). (2 marks)
 - (iii) Asterisk operator (*). (2 marks)
- (d) Explain the role of three internet governance actors. (6 marks)
- (Total: 20 marks)**

QUESTION FIVE

- (a) Differentiate between “secure protocols” and “non-secure protocols”. (4 marks)
- (b) Explain the following terms in the context of Internet technology:
- (i) Circumventing. (2 marks)
 - (ii) Censorware. (2 marks)
 - (iii) Anonymous remailer. (2 marks)
 - (iv) DNS leak. (2 marks)
- (c) Use the image shown below to answer question (c) (i) and (ii):



- (i) Identify the image above. (2 marks)
 - (ii) Explain two benefits of using the above image in business. (2 marks)
- (d) (i) Explain multipurpose internet mail extensions (MIME) as used in the world wide web. (2 marks)
- (ii) State two examples of MIME. (2 marks)
- (Total: 20 marks)**
-