

# 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)
- (Total: 20 marks)**