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(Knowledge for Development)

KIBABII UNIVERSITY

**UNIVERSITY EXAMINATIONS
2016/2017 ACADEMIC YEAR**

**SPECIAL/SUPPLEMENTARY EXAMINATIONS
YEAR ONE SEMESTER TWO EXAMINATIONS**

**FOR THE DEGREE OF
BACHELOR OF SCIENCE
COMPUTER SCIENCE**

COURSE CODE : CSC 123
COURSE TITLE : INTERNET TECHNOLOGIES

DATE: 28/09/2017

TIME: 11:30 A.M – 1:30 P.M

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE [COMPULSORY] [30 MARKS]

- (a) Describe the following concepts as used in internet technologies:
- (i) Computer Networks [2 Marks]
 - (ii) The World Wide Web (WWW) [2 Marks]
 - (iii) The Internet [2 Marks]
 - (iv) Internet Protocol [2 Marks]
- (b) (i) describe briefly the architectural structure of the internet. [5 Marks]
(ii) How does TCP/IP works. [4 Marks]
- c) Search engines are used to get information from the internet. Discuss any THREE search engines. [6 marks]
- d) LANS can be deployed by using Wi Fi. Explain the reason for using the wi- fi technology and circumstances that call for the use of this technology [4 marks]
- e) Outline THREE services provided by Internet. [3 marks]

QUESTION TWO: [20 MARKS]

- a) Define the following terms: [4 marks]
- i. Forum
 - ii. Web page
- b) State four features of the internet protocol [4 marks]
- c). Discuss the evolution of the internet societies [6 marks]
- d). Explain the usage of the following HTML tags [6 Marks]
- i)
 - ii) <hr>
 - iii)
 - iv) <tr>
 - v)
 - vi)

QUESTION THREE: [20 MARKS]

- a) Explain the following terms briefly as used in web design: [5 marks]
- i. Statement
 - ii. Delimiter
 - iii. Variables
 - iv. Identifier
 - vi. A floating point number
- b) Internet service providers, enable users to access the internet. Briefly explain the various means by which the users can connect to the internet. [8 marks]
- c) Discuss in detail how blogs work and give any two types of blogs [7 marks]

QUESTION FOUR: [20 MARKS]

- a) State the FOUR types of web code declaration blocks [3 marks]
- b) Identifiers are very important when writing a program. State the constraints of an identifier [3 marks]
- c) Blogs chats and forums are all important for communication over the internet. Discuss the advantages and disadvantages of these tools in communication over the internet.

[14 marks]

QUESTION FIVE: [20 MARKS]

- (a) Explain what you understand by the term Uniform Resource Locators (URLs)? [2 Marks]
- (b) Describe the URL concept and structure of URL addresses. [4 Marks]
- (c) (i) Differentiate between Newsgroups and E-mail. [2 Marks]
 - (ii) Differentiate between Gopher space concept and the internet concept. [4 marks]
 - (iii) Explain different types of URLs [4 Marks]
 - (iv) What is Internet security and why it is important? [2 Marks]
 - (v) What is a search engine and how does it work? [2 Marks]