



**KIBABII UNIVERSITY COLLEGE**

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**UNIVERSITY REGULAR EXAMINATIONS**

**2013 /2014 ACADEMIC YEAR**

**SEMESTER EXAMINATIONS**

**(MAIN EXAMINATION)**

**FOR THE DIPLOMA IN INFORMATION TECHNOLOGY**

**COURS CODE:** DIT 053

**COURSE TITLE:** INTERNET APPLICATIONS

**DATE:** 15<sup>TH</sup> AUGUST,2014

**TIME:** 9:00A.M.-11:00A.M.

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**INSTRUCTIONS TO CANDIDATES:**

Attempt question **ONE (1)** and **ANY TWO (2)** other questions from section B.

## QUESTIONS 1

**Instructions to candidates: Answer all questions in section A and any two questions in section B**

### **SECTION A (24mks) and section B(36mks)**

#### **SECTION A (24mks)**

##### Quiz 1

- a) Define the following terms as used in internet and web technology
- I. Computer network
  - II. Web caches
  - III. Hypertext
  - IV. Protocol
  - V. Stand –alone PC
- b) Briefly describe the following terms as used in computing
- i. IP address
  - ii. URL
  - iii. Domain Name
  - iv. Host computer
  - v. Server computer
  - vi. Homepage/index page
  - vii. Computer port

#### **SECTION B (36mks) Answer any two questions only**

##### QUESTION # 2

- (a) Distinguish front –end processors from back-end processors (3mks)
- (b) Your friend works in a company that has limited ICT resources. He seeks advice from you on how this resources can be shared amongst all the staff in that company. Advise him/her accordingly by briefly describing:
- i) Peer-to-Peer network  
Advantages and disadvantages
  - ii) Client-server network  
Advantages and disadvantages
  - iii) Distributed network
- Which of the two networks is an example of a distributed network (5mks)

- (c) A student at Bagamoyo high school had been wondering about the technology behind users of handheld devices like mobile phones, laptop, and notebook accessing internet without connecting via any cables. Justify this phenomenon (8mks)

### QUESTION # 3

A staff from a neighboring firm was astonished on realization that after surfing the internet the previous day he found out that his files had mysteriously disappeared from the computer system.

- i) What would be the most likely problem on the computer system?
- ii) What would be the damages on this computer system if this problem is not solved at all?
- iii) Advise your that staff on how to protect the computer system from such attacks in future.

### QUESTION # 4

- (a) Define a homepage. What should be the features in a well-designed homepage?
- (b) Describe text structuring targets and attributes in HTML
- (c) Your friend was surprised that he could easily access the University website check courses offered, download that page, check the fee balances and easily visit many other web pages on just a mouse click. Justify this phenomenon and illustrate with an example of an html code.

### QUESTION # 5

- (a) Kansime expresses his dissatisfaction after searching manual for books in the college library that describe the internet and web technologies. He seeks consultancy from you about other options to help him solve his problem. As an IT expert advice your friend accordingly.(2mks)
- c) Describe the five techniques that kansime will use to search for information based on the approach you recommend in section(a)above
- d) Using Table structuring tags, create the timetable of your classes in the present semester