THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY
DICT 2K 9J, DICT 9M

EIT 2310: INTERNET APPLICATION PROGRAMMING

SPECIAL/SUPPLEMENTARY EXAMINATION
SERIES: OCTOBER 2011
TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination
- *Answer booklet*

Answer question **ONE (COMPULSORY)** in section A and any other **TWO** questions from section B
Maximum marks for each part of a question are clearly shown.
This paper consists of **THREE** printed pages

Section A (COMPULSORY)

Question 1 (30 Marks)

(a.)   (i.)   Explain the purpose of the following protocols:

- Client-server protocol

- Hypertext Transfer protocol   [4 marks]

(b.)   (i.)   State the importance of hyperlinks in a web pages

        (ii.)   What are the two HTML elements that you need to specify to enable hyperlinks? As you explain, give the tag for each element.   [6 marks]

(c.)   (i.)   Explain the term internet

        (ii.)   Describe the function of Web Browsers   [4 marks]

(d.)   Briefly distinguish between Static Website and Dynamic Website   [4 marks]

(e.)   i.   State any two web authoring tools   [2marks]

        ii.   Explain how asp tags are entered in asp document   [2marks)

(f.)   Outline the life-cycle model of web site design, giving a brief description.   [6 marks]

Section B: Attempt any TWO Questions from this Section

Question 2 (20 Marks)

a)   State two default scripting languages used by ASP   **[2 Marks]**

b)   State any two web servers   **[2 Marks]**

c)   Explain the two post methods used in form tags to sent data to the web server. Stating any

        advantages and limitations of each   **[6 Marks]**

d)   State two default scripting languages used by asp   **[2 Marks]**

e)   State any two web servers   **[2 Marks]**

f)   Explain the two ASP request object, their format and function   **[6 Marks]**

Question 3 (20 Marks)

a)   Explain the function and format of the following ASP directives giving one example of each:

        i)   Output
        ii)   Processing   **[6 Marks]**

3b)   Describe the five keywords of processing directives   **[10 Marks]**

3c)   Describe any two possible errors experienced by web browser   **[4 Marks**

Question 4 (20 Marks)

a.)   College maintains student database on its web server. A table called Student includes among the fields Student_Name, Admission_no and feesbalance. The database can be accessed online. Write HTML codes to create a form shown below to accept Admission_no and send to the web server. Write a server side script using ASP scripting language to process user input search the table and return the feesbalance if the Admission_No is found else display the appropriate message.

Top of Form

Name:

Admission No:

Fees Balance

Cancel

                                                                                         [10 Marks]

b)   Distinguish between the following:

        i)   Response.Redirect method and
        ii)   Server.Transfer Method   **[4 Marks]**

c)   Explain the concept of 'channel' as applied to Web technology   **[2 Marks]**

d)   Explain the following:

        i)   Home Directory
        ii)   Virtual Directory   **[4 Marks]**

Question 5 (20 Marks)

a)   State the six main Jscript data types   **[3 Marks]**

b)   Describe conditional operator as used in Jscript   **[2 Marks]**

c)   Explain the five repetition structures used in Jscript   **[10 Marks]**

d)   Differentiate between write and alert methods as used in Jscript. Give an example of each. **[5 Marks]**