THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

Faculty of Engineering & Technology

DEPARTMENT COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY – DICT 2K9J/DICT 2K10J

EIT 2310/EIT 2303: INTERNET APPLICATION PRGAMMING

END OF SEMESTER EXAMINATIONS

SERIES: DECEMBER 2011

TIME: 2 HOURS

Instructions to Candidates:
You should have the following for this examination
 - *Answer Booklet*
This paper consist of **FIVE** questions in **TWO** sections **A & B**
Answer question **ONE (COMPULSORY)** and any other **TWO** questions
Maximum marks for each part of a question are as shown
This paper consists of **THREE** printed pages

SECTION A (COMPULSORY)

QUESTION 1 (30 MARKS)

a)   Explain the following:

      i)   Script
      ii)   Session Variables
      iii)   Application Variables
      iv)   Recordset Object
      v)   Cascading Style Sheets
      vi)   Script engine   **[12 Marks]**

b) With suitable example explain the following types of ASP directives

      i)   Output directives
      ii)   Process directives   **[4 Marks]**

c) Briefly explain the function of the five process directives   **[10 Marks**]

d) Explain the **two** types of scripts   **[4 marks]**

SECTION B (ANSWER ANY TWO QUESTIONS)

QUESTION TWO (15 Marks)

a) List the **two** methods by which data from a HTML form can be sent to a web server   **[2 Marks]**

b) Describe how the data is sent by each method mention above in question 2a explaining the suitability of each method   **[8 Marks]**

c) State the ASP object that that facilitates task of retrieving form information sent to web server with URL request   **[1 Mark]**

d) List the **two** collections provided by the object mentioned above in question 2c that facilitate the task of retrieving form information sent with a URL request and state their format   **[4 Marks**]

QUESTION THREE (15 Marks)

a) Write ASP code that will create and open connection to a MS Access database file:

                    "C:\Inetpub\wwwroot\Studen.mdb"   **[3 Marks]**

b) The database file of question 3a has a table called 'Exam'. Write ASP code that will create record set having all the records from the 'Exam' table   **[2 Marks]**

c) The structure of the Exam table is shown below:

Field Name	Data Type	Size (Number of characters)	Description
StudNo	Text	9	Student Admission No.
UnitCode	Text	8	Unit Code
CAT	Integer	-	CAT Mark
Exam	Integer		Exam Mark

A record of one student was omitted by mistake write as ASP code that will add the record of the student. The details are as follows:

StudNo: DIT/0010

UnitCode: EIT 2234

CAT   20

Exam   55

(For this section of the question you assume that the record set has been created and opened)
[4 Marks]

d) Write ASP code that will display all the records in the 'Exam' Table in a HTML table **[6 Marks]**

QUESTION FOUR (15 Marks)

a) Explain the statement 'Hypertext Transfer Protocol (HTTP) is stateless' **[3 Marks]**

b) Explain the use of session IDs **[2 Marks]**

c) Describe **two** methods that do not use cookies to allocate and receive session ID information, listing **two** advantages and two disadvantages of each method **[10 Marks]**

QUESTION FIVE (15 Marks)

a)   Explain 'HTTP cookies' **[2 Marks]**

b) Write as ASP code to create a cookie call 'access', assigning it a value 'allowed'; and set its expiry date to 30/12/2011 **[4 Marks]**

c) Explain the use of the:

   i.   Session Object

   ii.   Application Object

d) Explaining the difference between the Session object and the Application Object **[9 Marks]**