THE TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION TECHNOLOGY (DIT 12J/DICT J12)

ECE 2206: INTERNET PROGRAMMING

END OF SEMESTER EXAMINATION
SERIES: AUGUST 2013
TIME: 2 HOURS

Instructions to Candidates:
You should have the following for this examination
- *Answer Booklet*

This paper consists of **FIVE** questions. Attempt question **ONE** and any other **TWO** questions

Maximum marks for each part of a question are as shown
This paper consists of **THREE** printed pages

Question One (Compulsory)

a) Define the following terms:
  (i)   Sever side script   **(2 marks)**
  (ii)   Web server   **(2 marks)**
  (iii) Front-end application   **(2 marks)**

b) Explain the difference between client side script and web browser   **(4 marks)**

c) List **TWO** scripting languages for server side programming   **(2 marks)**

d) Explain **FOUR** reasons why you would incorporate JavaScript in internet programming
                                                                            (4 marks)

e) State **TWO** instances where the POST method may be appropriate for sending variables.
                                                                            (6 marks)

f) Give **THREE** reasons why you would prefer PHP for server side scripting, a opposed to other
       scripting language e.g. ASP and JSP   **(6 marks)**

g) Write the syntax for a JavaScript function that uses two arguments   **(4 marks)**

Question Two

a) Explain the term variable scope as used in PHP   **(3 marks)**

b) State **TWO** variable scopes in PHP illustrate using a code fragment for each.   **(6 marks)**

c) Explain **TWO** ways of inserting Java Script in HTML, illustrate using a suitable code for each
                                                                            (6 marks)

Question Three

a) Write JavaScript code that prints out the day of the week according to system Date/Time
                                                                            (6 marks)

b) Given the form below:

First Name: [   ]

Age: [   ]

Post the form to a second page "Age.php" Write PHP scripts to do the following:
  (i)   Print the submitted name and age on the age: php page   **(4 marks)**

       Example
       Welcome Sam!
       You are 24 years old

(ii) Prove form validation such that no filed is left blank and age is valid number, otherwise displays the errors found with the form. **(5 marks)**

Question Four

a) Give the following variable "message"

    Uar message = "Hello world",
    Write JavaScript statements

    (i)   To find the length of a message   **(3 marks)**
    (ii)   To convert message to uppercase   **(3 marks)**

b) With examples, illustrate how to insert PHP code to HTML document   **(4 marks)**

c) Explain the term "My SQL Injection" and suggest the mitigation measures.   **(5 marks)**

Question Five

a) Write scripting code segments that use the following features   **(10 marks)**
    (i)   Confirm boxes
    (ii)   Prompt boxes
    (iii)   Alert boxes
    (iv)   Include
    (v)   Die ( );

b) Write a loop in PHP that will print out the sum of any 10 given number   **(5 marks)**