



TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION TECHNOLOGY
(DICT 10A, DICT 11M, DIT 11M, DIT 2K11M)

EIT 2306: INTERNET PROGRAMMING

SUPPLEMENTARY/SPECIAL EXAMINATIONS

SERIES: FEBRUARY 2013

TIME: 2 HOURS

INSTRUCTIONS:

- This paper consists of **FIVE** questions.
- Answer question **ONE (Compulsory)** and any other **TWO** questions.

This paper consists of Three printed pages.

SECTION A (Compulsory)

QUESTION 1

- a) Differentiate between client-side scripting and server-side-scripting. (4 marks)
- b) List **TWO** languages for each of the **TWO** above. (2 marks)
- c) Explain **FOUR** reasons why you would incorporate Javascript in your web project. (4 marks)
- d) State **TWO** instances where the GET method may not be appropriate for sending variables. (4 marks)
- e) Give **TWO** reasons why you would prefer PHP for server-side-scripting, as opposed to other scripting languages. E.g. ASP, JSP, Perl, Python etc. (4 marks)
- f) Write the syntax for a Javascript function that uses two arguments. (2 marks)

SECTION B

QUESTION 2

- a) Explain the term variable scope as used in PHP. (3 marks)
- b) State **TWO** variable scopes in PHP, for each illustrate using a code fragment. (8 marks)
- c) Explain **THREE** ways of inserting Javascript in HTML. For each illustrate using a suitable code fragment. (9 marks)

QUESTION 3

- a) Write a Javascript function called 'greetings' that prints out, on the click of a button, a greeting (say, goodmorning, good evening, good day) according to the time of day. (6 marks)
- b) State **FOUR** javascript naming conventions for variables. (4 marks)
- c) Given the form below:

Write PHP to do the following

- i) Print the submitted name and age on the welcome. Php page
e.g Welcome Sam!
You are 24 years old.

(4 marks)

- ii) Provide form validating such that no field is posted blank and that age is a valid number, otherwise displays the errors found writing the form. **(6 marks)**

QUESTION 4

- a) Given the following variable, 'message'.
Var message = "Hellow World"
Write javascript statements using objects to:
- i) Find the length of message. **(3 marks)**
 - ii) Convert message to uppercase. **(3 marks)**
- b) Inserting Javascript internally can be done in HTML either on the head tag on the body tag. State the criteria to use for selecting the location for inserting internally. **(4 marks)**
- c) Using suitable code example (s), illustrate how you would perform the following in PLHP.
- i) Set a cookie
 - ii) Retrieve a cookie value
 - iii) Delete a cookie **(6 marks)**
- d) Explain the term 'My SQL injection' and suggest a prevention for it. (illustrate using code). **(4 marks)**

QUESTION 5

- a) Explain the use of the following features in PHP.
- i) Html entities
 - ii) Include
 - iii) Require
 - iv) Cookies
 - v) Sessions
- b) Write a loop in PHP that will print out the lines below:
The number is 1
The number is 2
The number is 3
The number is 4
The number is 5
- c) Write a Javascript code to demonstrate how javascript can write directly to the html output stream. **(4 marks)**