



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

DIPLOMA IN TECHNOLOGY DIPLOMA IN COMPUTER NETWORKS ENG DIPLOMA IN COMPUTER SCIENCE ENGINEERING

WEB DESIGN, DEVELOPMENT & CONFIGURATION

END OF SEMESTER EXAMINATIONS

SERIES: AUGUST/SEPTEMBER 2011

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

Answer booklet

Answer question **ONE (COMPULSORY)** and any other **TWO** questions This paper consists of **THREE** printed pages

Question 1 (Compulsory)

a)	Design a simple webpage featuring the following components i) Headers ii) Paragraph iii) Bold text iv) Italicized text v) Hypertext link vi) An image vii) Lists viii) Blue background colour ix) Comments x) Line breaks	(10 marks)
b)	With the aid of diagrams describe the 3-Tier Client-Server system as applied and configuration	l to web design (7 marks)
c)	Describe the concept of browser compatibility test	(2 marks)
d)	State THREE well known picture formats used in web design	(3 marks)
e)	Name the TWO most commonly used web servers	(2 marks)
f)	Distinguish between the internet and the World wide web	(4 marks)
g)	Distinguish between client side and server side scripting language	(2 marks)
Qι	uestion 2	
a)	Describe CSS as applied in web design	(5 marks)
b)	Distinguish between the following CSS styles giving example application in each (i) Inline style sheets (ii) Embedded style sheets (iii) External style sheets	ach case (9 marks)
c)	State the TWO selectors used in CSS and describe how each of them is endesign	nployed in web (6 marks)
Qι	uestion 3	
a)	With the aid of simple PHP scripts explain the functionality of the following loops (i) The FOR loop (ii) The DOWHILEloop (iii) IFELSE loop	g programming (9 marks)

b) Describe the function of forms in PHP programming	(1 mark)
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- c) Distinguish between method POST and GET as used in with the html forms for sending data from one point to another (4 marks)
- d) (i) Define the term array
 - (ii) Outline **TWO** advantages of using arrays over variables

(6 marks)

Question 4

- a) (i) Define the following terms
 - (a) Primary key
 - (b) Foreign key

(4 marks)

- (ii) Describe the **THREE** broad categories into which SQL can be classified (6 marks)
- b) Write simple SQL commands that will perform the following functionalities
 - (i) Create a database called DIPLOMA
 - (ii) In this database create **THREE** field table called LESSON that has THREE fields
 - (iii) Separately write SQL code that can INSERT, DELETE and UPDATE records within the database (10 marks)

Question 5

- a) Define and describe the use of the following terms as used in PHP
 - (i) Operators
 - (ii) Variable
 - (iii) Function

(6 marks)

- b) Using practical example, describe the functioning of at least **THREE** different categories of operators (9 marks)
- c) With a typical "helloworld" program outline the syntax of the PHP server side scripting language. (5 marks)