



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)

EIT 2303: INTERNET APPLICATION PROGRAMMING

END OF SEMESTER EXAMINATIONS

SERIES: AUGUST/SEPTEMBER 2011

TIME: 2 HOURS

Instructions to Candidates:

This paper consist of TWO sections A and B

Answer question **ONE** (**COMPULSORY**) and any other **TWO** questions from the list of questions below

This paper consists of FOUR printed pages

SECTION A (30 MARKS) – Answer all Questions in this section

Question 1 (Compulsory)

a)	Explai (i) (ii)	n 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	(2 marks)	
	(iii)	State the TWO HTML elements that you need to specify to enable hyperlinks the tag for each element	. State (6 marks)	
c)	(i)	Explain the term Internet	(1 mark)	
	(ii)	Describe the function of Web Browsers	(3 marks)	
d)	d) List and explain TWO uses of cookies in Internet application programming (4 marks)			
e)	(i)	State any TWO web authoring tools	(2 marks)	
	(ii)	Explain how asp tags are entered in asp document	(2 marks)	
f)	Write	a Java Script that will output the following text:	(4 marks)	
Welcome to my homepage! This is JavaScript!				
g)	State a	any TWO rules for naming variables in java script	(2 marks)	
SECTION B – Answer any TWO questions				
Question 2 (20 marks)				
a)	Differ	entiate between dynamic and static web pages	(4 marks)	
b)	State a	any FOUR characteristics of a good web application design	(4 marks)	
c)	Name	any FOUR web security issues affecting web application today	(4 marks)	
d)		a while iteration structure write a java script codes that prints 10 integers 3,4,56,7,8,9) in a form after a click event Run as shown below	(8 marks)	

Question 3(20 marks)

a) List and briefly explain THREE components of client-server architecture (3 marks)
 b) Describe a Cookie (2 marks)
 c) Outline FOUR advantages of client server architecture (4 marks)
 d) Using an appropriate URL, list and briefly explain its components or parts (4 marks)
 e) State any key principles on how to organize documents and information on the web (3 marks)
 f) Study the following piece of java script codes and give its output (4 marks)

```
<html>
<body>
<script type= "text/javascript">
Var x;
x=5+5;
document.write(x);
document.write("<br/>');
x="5"+"5";
document.write(x);
document.writer("<br/>');
x=5+"5";
document.write(x);
document.write("<br/>'')
x = "5" + 5;
document.write(x);
document.write("<br/>');
</script>
</body>
</html>
```

Question 4(20 marks)

a) Analyse the following piece of codes and give its output

(3 marks)

- b) What do we mean by the statement that java script is loosely typed? (2 marks)
- c) State any THREE advantages of Java script over HTML in web development (3 marks)

d) Define a HTML page that will produce content which has the following layou Some useful sites Click on the link to go to that page O ASP	ıt:			
 Cloud Computing 				
<u>i. A.I</u>				
<u>ii. Freeware</u>				
<u>iii. Shareware</u>				
iv. <u>Iscript</u>	(12 marks)			
Question 5 (20 marks)				
a) State the THREE main Java script data types	(3 marks)			
b) Describe any TWO conditional operators as used in Java script				
c) Using an appropriate diagram, explain how an Internet application works	(5 marks)			
d) Differentiate between write and alert methods as used in Java script. Give an	_			
e) Using appropriate HTML tags, outline HTML document structure	(6 marks) (2 marks)			