

# MAASAI MARA UNIVERSITY

UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR SCHOOL OF PURE, APPLIED AND HEALTH SCIENCES (REGULAR)

# THIRD YEAR SEMESTER I EXAMINATIONS FOR THE BACHELOR OF SCIENCE IN COMPUTER SCIENCE

**COURSE CODE: COM 3107** 

**COURSE TITLE: INTERNET PROGRAMMING** 

DATE: WED 6<sup>TH</sup>/03/2022 TIME: 2:30-4:30PM

#### **INSTRUCTIONS TO CANDIDATES**

• ANSWER Question **ONE** and any other **TWO** 

### **QUESTION ONE (30 MARKS)**

- a.) Define following terms in relations to internet programming.
  - i. Hypertext
  - ii. Web server
  - iii. HTTPS
  - iv. X.H.T.M.L
  - v. I.E.T.F

[5 marks]

b.) You have been hired as a web app developer at IEBC; explain to the ICT Board five important things that must be considered while developing a web application.

[5 marks]

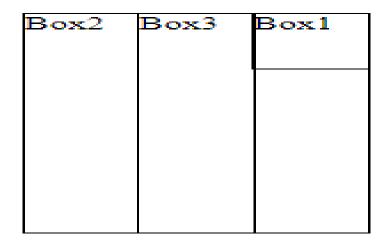
c.) Use an example to explain how a simple rollover effect can be achieved in HTML.

[4 marks]

d.) Write a .js function to add two numbers, and alert the user by returning the result when the user clicks a button.

[6 marks]

e.) Write and explain CSS/HTML code that outputs the structure below:



[10 marks]

## **QUESTION TWO (20 MARKS)**

a.) Using a diagram, discuss the MVC architecture used in building secure web applications.

[10 marks]

b.) Interpret the color value: 173, 102, 254, represents and explain two numeric, standardized color formats as used in web graphics.

[6 marks]

b.) Explain the purpose of the Web Accessibility Initiative (WAI), as created by the World Wide Web Consortium (W3C).

[4 marks]

_	code that o	can be used to create the following int	erface:
	Name:		
	Email:		
	Date:		
Preference	: Reading		
	Surfing		
	Music		
	Doesn't s	moke□	
		Submi	t
[10 marks] b.) Using an example, describe the procedure for creating a hyperlink in an web applications/documents			
[6 m			[6 marks]
c.) Using appropriate code examples show how to declare the followin two events.			
	OnFocus(		
	OnMouse	over()	[4 marks]
javascrij and help	a class tea pt function him mak	O MARKS)  acher and also teaches chemistry. Buil  a that returns the value of the average  e a call to this function to retrieve this  e steps of your code.	of four tests,
-	_	task to audit a web application for Hu lation points you would consider as a	