

# AFRICA NAZARENE UNIVERSITY

CENTRE:

**RONGAI** 

**DEPARTMENT:** 

**COMPUTER SCIENCE** 

UNIT TITLE:

INTRODUCTION TO WEB DESIGN AND

**DEVELOPMENT** 

**UNIT CODE:** 

**CSC 103** 

LECTURER:

**JAMES OBUHUMA** 

TRIMESTER:

2<sup>ND</sup> TRIMESTER 2014/2015

DATE:

7<sup>TH</sup> APRIL, 2015

TIME:

9.00AM - 12 NOON

### Instructions:

- 1. Answer question ONE (Compulsory) and any other TWO questions.
- 2. Write all your answers in the answer booklet provided.
- 3. Time allowed: Three hours.

## Question One: [30 Marks] - Compulsory

- a) Give the role of the following terms with reference to the Internet and the Web:
  - i) ICANN

[2 Marks]

ii) W3C

[2 Marks]

- b) Identify and explain any three reasons why HTML5 gaining more application in the current Internet World compared to earlier HTML versions. [3 Marks]
- c) Identify the three sections that form the URL www.cnn.com.

[3 Marks]

- d) Consider the HTML <div> tag:
  - i) What is its main role?

[2 Marks]

ii) Why is the <div> not necessary in HTML5?

[2 Marks]

- e) Differentiate between:
  - i) Cellpadding and cellspacing

[2 Marks]

ii) Colspan and Rowspan

[2 Marks]

- f) Code an ordered list that uses lowercase roman numerals that starts at 9 and contains three elements. [3 Marks]
- g) Code a JavaScript that prompts a user to type the radius value after which it outputs the Perimeter of a circle through an alert message. [5 Marks]
- h) HTML5 provides better facilities for embedding video and audio files on web applications. Explain with a code snippet for achieving this.

  [4 Marks]

### Question Two: [15 Marks]

a) Write the HTML5 code for the following web page. Use an embedded CSS.

[10 Marks]

# Africa Nazarene University

Home

About Us

Home

**Programs** 

Africa Nazarene University is a member of the worldwide family of Nazarene institutions founded on the same principles - the development of students in a strong spiritual environment.

ANU offers a well-rounded, holistic education to help members establish themselves in three important areas:

b)	Differentiate between Web 1.0 and Web 2.0 stating examples in each case.	[5 Marks]
Question Three: [15 Marks]		
a)	With reference to the Client-Server Model:	
	i) With the aid of a diagram, discuss the model with respect to web-based	annlications
	•	[4 Marks]
	ii) State and explain the role of any two protocols used in the model.	[4 Marks]
b)	With reference to the Domain Name System:	[ • 14242 125]
	i) What is its role?	[2 Marks]
	ii) With the aid of a diagram, explain how it works.	[5 Marks]
		[o marito]
Question Four: [15 Marks]		
a)	The <canvas> tag is one of the flexibility features in HTML5:</canvas>	
	i) What is its role?	[2 Marks]
	ii) Using the <canvas> tag and JavaScript, write a code that draws a circle</canvas>	-
		[7 Marks]
b)	Use an 'if' statement to display of the statement "Good Morning" if the	
browser is less than 12:00 otherwise it display the statement "Good Afternoon"		
		[6 Marks]
Question Five: [15 Marks]		
Consider the following form:		
Γ	Suggestion Form	
Na	ime:	
Pro	ogramme: BBIT BSC D	
Ge	nder: Male O Female O	
Suggestion:		

Send

Clear Form

- a) Write the html5 code for the form. Use html5 field validation options.
- b) Write the html5 code for the form. Use JavaScript for field validation. [8 Marks]
- [7 Marks]