

AFRICA NAZARENE UNIVERSITY

CENTRE:

RONGAI

DEPARTMENT:

COMPUTER SCIENCE

UNIT TITLE:

INTRODUCTION TO WEB DESIGN AND DEVELOPMENT **CSC 103**

UNIT CODE:

LECTURER:

OBUHUMA JAMES.

TRIMESTER:

1ST TRIMESTER 2015/2016

DATE:

4TH DECEMBER, 2015

TIME:

2.00PM - 5:00PM

Instructions:

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

Question One [30 Marks]

- a) Consider a doctype statement in an HTML file:
 - i) Where is it placed in the HTML file?

[1 Mark]

ii) What is its purpose?

[2 Mark]

- b) Differentiate between the following terms with respect to the Internet and the Web:
 - i) Intranet and Extranet

[2 Marks]

ii) LAN and WAN

[2 Marks]

c) Identify the various sections that form the URL http://www.cnn.com.

[4 Marks]

- d) HTML5 offers 6 elements critical for page layout management. State and explain the role of any three of the six elements.

 [6 Marks]
- e) Write the HTML5 code that will produce the following list:
 - Web design is an interesting course.
 - The following are my classmates:
 - D. James
 - E. John
 - F. Mark

[4 Marks]

- f) 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]
- g) Assume you have a video file "cartoon.mp4". Using an appropriate code snippet, explain how the file could be embedded on a web page.

 [4 Marks]

Question Two [15 Marks]

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

[15 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:

Question Three [15 Marks]

a) You have been contracted to design, develop then publish a website for a start-up ICT Company that offers ICT services including sale of ICT equipment. Using the System Development LifeCycle's (SDLC) main phases, discuss what activities you will undertake at every phase.

[10 Marks]

b) With the aid of a diagram, discuss the client/server model with respect to web-based applications.

[5 Marks]

Question Four [15 Marks]

- a) The <canvas > tag is one of the flexibility features in HTML5:
 - i) What is its role?

[2 Marks]

ii) Using the <canvas> tag and JavaScript, write a code that draws a circle on a canvas.

[7 Marks]

b) Use an 'if' statement to display of the statement "Good Morning" if the time on your browser is less than 12:00 otherwise it display the statement "Good Afternoon" [6 Marks]

Question Five [15 Marks]

a) Consider the following form:

	Suggestion Form	
Name:		
Programme:	BBIT BSC	
Gender:	Male Female	
Send	Clear Form	

i) Write the html5 code for the form using html5 field validation options.

[7 Marks]

ii) Rewrite the html5 code for the form using JavaScript for field validation.

[8 Marks]

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