



AFRICA NAZARENE UNIVERSITY

DISTANCE LEARNING

CENTRE: RONGAI
DEPARTMENT: COMPUTER SCIENCE
UNIT TITLE: INTRODUCTION TO WEB DESIGN AND DEVELOPMENT.
UNIT CODE: CSC 103
LECTURER: OBUHUMA JAMES
TRIMESTER: 1ST TRIMESTER 2015/2016
DATE: 7TH DECEMBER, 2015
TIME: 9.00AM – 12 NOON

Instructions:

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

Question One [30 Marks]

- a) Consider a <meta> tag a HTML file:
- i) Where is it placed in the HTML file? [1 Mark]
 - ii) With clear code snippets, state any two roles of the <meta> tag. [4 Marks]
- b) What is the role of the <div> tag? [2 Marks]
- c) Give the role of the following Internet Standards and Coordination organisations:
- i) Internet Society [2 Marks]
 - ii) ICANN [2 Marks]
 - iii) W3C [2 Marks]
- d) Identify the sections that form the URL <http://www.safaricom.com>. [4 Marks]
- e) Write the HTML5 code that will produce the following list:
- iii. Web design is an interesting course.
 - iv. The following are my classmates:
 - o James
 - o John
 - o Mark
- f) Code a JavaScript that prompts a user to type the radius value after which it outputs the Area of a circle through an alert message. [4 Marks]
- g) Assume you have an audio file “gospel.mp3”. Using an appropriate code snippet, explain how the file could be embedded on a web page. [5 Marks]
- g) Assume you have an audio file “gospel.mp3”. 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

Programs

Home

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:

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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 applications.

[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:

i) What is its role?

[2 Marks]

ii) With the aid of a diagram, explain how it works.

[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

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]

