

AFRICA NAZARENE

UNIVERSITY

EVENING & DISTANCE LEARNING

CENTRE:

NAIROBI

DEPARTMENT:

COMPUTER SCIENCE

UNIT TITLE:

INTRODUCTION TO WEB DESIGN AND DEVELOPMENT

UNIT CODE:

CSC 103

LECTURER:

OBUHUMA JAMES

TRIMESTER:

1ST TRIMESTER 2015/2016

DATE:

30TH NOVEMBER 2015

TIME:

5.30PM - 8.30PM

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

a) Consider a <meta> tag a HTML file:

i) Where is it placed in the HTML file? (1 mark) (4 marks) ii) With clear code snippets, state any two roles of the <meta> tag.

(2 marks) b) What is the role of the <div> tag?

c) Give the role of the following Internet Standards and Coordination organisations:

(2 marks) i) Internet Society (2 marks) ii) ICANN

(2 marks) iii) W3C

d) Identify the sections that form the URL http://www.safaricom.com. (4 marks) (4 marks)

e) Write the HTML5 code that will produce the following list:

i) Web design is an interesting course.

- ii) The following are my classmates:
- James
- John
- 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.

g) Assume you have an audio file "gospel.mp3". Using an appropriate code snippet, explain how (4 marks) the file could be embedded on web pages.

Question Two

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:

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Ouestion Three

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

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

(2 marks)

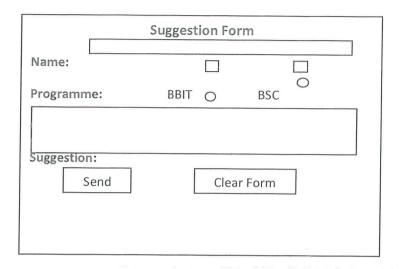
ii) Using the <canvas> tag and JavaScript, write a code that draws a circle on a canvas.

(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

Consider the following form:



- a) Write the html5 code for the form using html5 field validation options.
- (7 marks)
- b) Rewrite the html5 code for the form using JavaScript for field validation.
- (8 marks)

