



# MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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## University Examinations 2013/2014

THIRD YEAR, FIRST SEMESTER EXAMINATION FOR DEGREE OF BACHELOR OF  
BUSINES IN INFORMATION TECHNOLOGY

### HBT 2302: APPLICATION PROGRAMMING FOR THE INTERNET

DATE: APRIL 2014

TIME: 2 HOURS

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**INSTRUCTIONS:** Answer question *one* and any other *two* questions in Section B

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#### QUESTION ONE – (30 MARKS)

- (a) Explain the difference between www and internet. (2 marks)
- (b) Name three applications that the internet is used for today. (3 marks)
- (c) Describe the three ways available for setting colors in HTML, XHTML and CSS. (3 marks)
- (d) Give four changes W3C has made in HTML5. (4 marks)
- (e) Give an example outline of an HTML document with the minimum of required tags. (3 marks)
- (f) What is the importance of JavaScript when developing a website? (3 marks)
- (g) Which tag do you have to use if you want to insert JavaScript into an HTML document? (3 marks)
- (h) Where is a PHP script executed? (2 marks)
- (i) Briefly describe what it means if your browser shows a URL starting with https:// (3 marks)

(j) Name four benefits of content management systems. (4 marks)

### QUESTION TWO – (20 MARKS)

(a) Describe the two ways of passing variables from a form to a script and elaborate their differences. (6 marks)

(b) Write a PHP script that does the following:

i. Connect to a mysql instance running on **localhost** with the username **admin** and the password **foo**. (3 marks)

ii. Select a database named **examDB** (2 marks)

iii. Query a table named people for all the entries of the columns **firstName** and **age** (3 marks)

iv. Print out all the first names and ages. (4 marks)

### QUESTION THREE – (20 MARKS)

a) Which ways do you know to insert CSS into an HTML document? (4 marks)

b) Describe the syntax of CSS with the help of example. (6 marks)

c) Where can you place JavaScript code? Elaborate when you would put code where and what to consider when putting it there. (4 marks)

d) Outline differences between client side and server side scripting languages. (4 marks)

### QUESTION FOUR – (20 MARKS)

(a) Name two internet governing bodies and explain their responsibilities. (6 marks)

(b) What is a DNS? (4 marks)

(c) Explain the following diagram with respect to the operating characteristics of the internet. (10 marks)

**QUESTION FIVE – (20 MARKS)**

- (a) The modern websites should include multimedia contents such as videos, audios and animations. Discuss the role of such multimedia in a website. (6 marks)
- (b) Explain the client server paradigm for www. Comment on the roles of web client and server and communication processes that takes place. (6 marks)
- (c) Write CSS code for translating, transforming and rotating an object. (6marks)
- (d) Distinguish between domain name and ip address. (2 marks)