



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR BACHELOR OF TECHNOLOGY IN
INFORMATION & COMMUNICATION TECHNOLOGY
BTech. ICT

EIT 4202: WEB APPLICATION PROGRAMMING

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: OCTOBER 2011

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer booklet*

Answer question **ONE (COMPULSORY)** in section A and any other **TWO** questions from section B

Maximum marks for each part of a question are clearly shown.

This paper consists of **THREE** printed pages

Question 1 (30 marks)

- (a.) (i.) Explain the purpose of the following protocols:
- Client-server protocol
 - Hypertext Transfer protocol
- (4 marks)
- (b.) (i.) State the importance of hyperlinks in a web pages
(ii.) What are the two HTML elements that you need to specify to enable hyperlinks? As you explain, give the tag for each element.
- (6 marks)
- (c.) (i.) Explain the term internet
(ii.) Describe the function of Web Browsers
- (4 marks)
- (d.) Briefly distinguish between Static Website and Dynamic Website
- (4 marks)
- (e.) i. Describe the importance XML in web design.

ii. Differentiate between CSS and XSL (4marks)

(f.) Outline the life-cycle model of web site design, giving a brief description. (6 marks)

Question 2 (20 marks)

(a.) Define the main elements involved in HTML TABLES. (3 marks)

(b.) (i.) State the purpose of a caption tag. (1 mark)

(ii.) Show with any suitable example how the above tag is defined. (3 marks)

(c.) Define a HTML code excerpt for following table layout:

Course Code	Course Title	Contact Hours
EIT 2100	Fundamentals of Computing	70
EIT 2201	Foundations of Programming	45
EIT 2304	Object Oriented programming	45
Total Contact Hours		160

(13 mark)

Question 3 (20 marks)

(a.) (i.) State the two types of lists used in HTML page? What differentiates them?
(ii.) Using a suitable illustration give the tags used to implement each list type. (8 marks)

(b.) Define a HTML page that will produce content which has the following layout:

Some useful sites

Click on the link to go to that page

- [o Data mining](#)
- [o Microsoft](#)
- [o Disney](#)
- [o Google – Search](#)
- [o Book – Search](#)
- [o Free code!](#)

(12 marks)

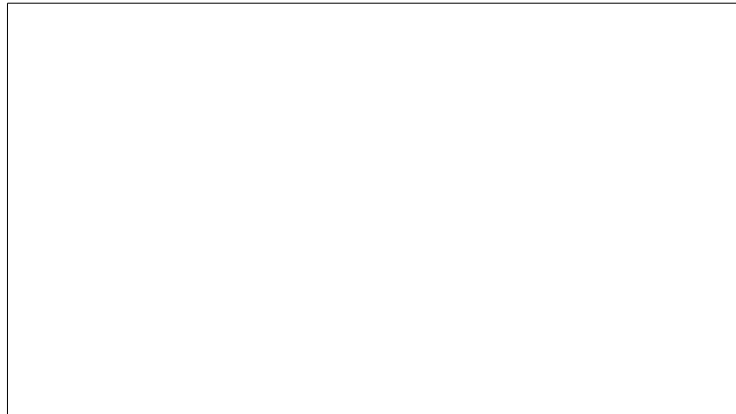
Question 4 (20 marks)

(a.) Explain the three form elements. (6 marks)

(b.) Briefly describe any FOUR Form features (4 marks)

(c.) Describe HTML CODE that will output the web page below:

(10 marks)



Question 5 (20 marks)

- (a.) Describe the function of the two parts of the TCP/IP communication protocol. (2 marks)
- (b.) Define and briefly explain the role of:
(i.) DTD (4 marks)
(ii.) W3C (4 marks)
- (c.) Explain the difference between Dynamic HTML and Static HTML. (4 marks)
- (d.) i. Explain the roles of **stylesheets** (2 marks)
ii. Differentiate using suitable illustrations between **Inline styles** and Document level style Sheets (4 marks)