



TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY (DICT 14S/-EV)

ECS 2201: WEB DEVELOPMENT

END OF SEMESTER EXAMINATION

SERIES: APRIL 2015

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consists of **FIVE** questions.

Attempt question **ONE (Compulsory)** and any other **TWO** questions

Maximum marks for each part of a question are as shown

This paper consists of **THREE** printed pages

Question One (Compulsory)

- a) Explain the following concepts:
- (i) Web browser
 - (ii) Web page
 - (iii) Web site
 - (iv) Web server
 - (v) Empty tag
- (10 marks)
- b) Explain how a comment is inserted in HTML document (1 marks)
- c) Explain the role of CGI (2 marks)
- d) Sketch the output produced by the following HTML code.
- ```
Name: <input type = "text" name = "N"
value = "John Kamau" >

<input type = "checkbox" name = "subject
value = "HTML" > web design

<input type = "checkbox" value = "cpp"> opp

<input type = "submit" value = "send Now">
<input type = "reset"
```
- (4 marks)
- e) List any THREE used of java script in developing web page (3 marks)

### Question Two

- a) List the attributes of <font> tag (1 mark)
- b) State the HTML code to insert blank spaces between two words (1 mark)
- c) Write HTML tags to:
- (i) Display picture aligned in center (2 marks)
  - (ii) Display names any FOUR countries in drop down box (4 marks)
- d) Explain the use of:
- (i) Server side script
  - (ii) Client side script
- Give ONE possible use of each (6 marks)
- e) Explain advantages of using CSS (cascading style sheet) (6 marks)

### Question Three

- a) By means of an example show how an image can be used as a link to [www.webnotes.com](http://www.webnotes.com) (2 marks)
- b) Discuss the factors you would consider when designing a website (10 marks)
- c) Write HTML code that will display the nested list shown below:

## FOOD RECOMMENDED FOR BALANCED DIET

A balance contain:

A Protein

- Carbohydrates
- Vitamin and minerals

Proteins

- ✓ Meat
- ✓ Beans

B Carbohydrates

- (i) Maize
- (ii) Rice

C Minerals

1. Fruits
2. Vegetables

**(8 marks)**

### Question Four

a) Write HTML code to:

(i) Text in blue, size 16 and font type Times New Roman

(ii) Center align paragraph

(iii) To display horizontal line whose color is blue, thickness and 100 pixel wide

(iv) Create link to sound clip called abc.mp3

**(4 marks)**

b) Explain the use of hyper link

**(2 marks)**

c) What is a CSS selector? Using an example, describe the format of a CSS selector

**(4 marks)**

d) Explain the following in reference to CSS

(i) Id selector

(ii) Class selector

Giving a suitable example of each

**(4 marks)**

e) Describe the THREE ways of inserting a style sheet

**(6 marks)**

### Question Five

a) List THREE ways in which JavaScript function will execute

**(3 marks)**

b) Write HTML code containing JavaScript function that will accept TWO values input by use and return their product when a user click on a button

**(10 marks)**

c) Explain the use of number ( ) function in JavaScript

**(2 marks)**

d) Write HTML code to display the following table on a browser

**(5 marks)**

| Course Code | Course Title    | Contact Hours |
|-------------|-----------------|---------------|
| EIT 2100    | Web Development | 70 hours      |
| EIT 2105    | Java Script     | 45 hours      |

|                     |           |          |
|---------------------|-----------|----------|
| EIT 2203            | Basic IT  | 30 hours |
| EIT 2201            | Data Base | 30 hours |
| Total Contact hours |           |          |