



The Co-operative University of Kenya

END OF SEMESTER EXAMINATION – APRIL 2017

EXAMINATION FOR THE DIPLOMA IN INFORMATION TECHNOLOGY
(DIT SEPT 2016)

UNIT CODE: DCIT 1201

UNIT TITLE: WEB ENGINEERING AND CLOUD COMPUTING

DATE: 21ST APRIL 2017

TIME: 9.00 AM – 11.00 AM

INSTRUCTIONS:

- Answer question **ONE (compulsory Marks)** and any other **TWO** questions

QUESTION ONE

- Define the term web engineering (2 Marks)
- Differentiate a thick client from a thin client. (1 Marks)
- Write down the code that would change a web page's background color to green. (1 Marks)
- Describe 4 reasons why you would encourage web designers to embrace web engineering. (4 Marks)
- Write down the html code that would perform the following. (12 Marks)
 - Generate the sentence
My *redeemer* lives **indeed** forever and ever
 - Insert an image named Zebra.jpeg that has a height of 70px and a width of 20px
 - Make the sentence below to be Arial, size 12 and purple in color.
Above all kingdoms, above all thrones.
 - Generate the symbol ©
 - Insert the video named Maiden.mp4 that has a height of 350px and a width of 200px.
 - Generate the equation below
 $x^5 + ay_2 = 100^a_b$
- Eminent computers, a startup is hesitant to adopt cloud computing. Give 3 reasons why the company is hesitant to adopt this model of computing. (3 Marks)
- Distinguish between CSS and tables. (2 Marks)
- Write the code that would insert a track called cool.mp3 on a web page. (2 Marks)
- Describe 3 essential characteristics of cloud computing. (3 Marks)

QUESTION TWO

- Define the following terms: (5 Marks)
 - Cloud computing
 - Hypermedia
 - Website
 - URL
 - Internet

- b) Give 5 reasons why you would encourage Deedee Computers, a re-known computing firm to adopt cloud computing. (5 Marks)
- c) Describe 3 cloud computing service models. (6 Marks)
- d) Using code, distinguish an ID from a class in CSS. (4 Marks)

QUESTION THREE

- a) Using example code, explain the three types of CSS: (9 Marks)
- b) By use of html code, describe the levels of headings that can be found in a webpage. (2 Marks)
- c) Give the html code that abbreviates the acronym UN. (2 Marks)
- d) Write down the html code that would generate the table below. (7 Marks)

QUESTION FOUR

- a) Generate the html code for the form below. (10 Marks)

Form Validation

Name:

Username:

Password:

Re-type password:

Gender: Male Female Other

Programming skills: Java Android Ruby .Net

Contact no:

Email:

College:

- b) Using html5 code, describe the 3 major types on lists. (10 Marks)