



(Knowledge for Development)

KIBABII UNIVERSITY

**UNIVERSITY EXAMINATIONS
2020/2021 ACADEMIC YEAR**

**END OF SEMESTER EXAMINATIONS
YEAR TWO SEMESTER ONE EXAMINATIONS**

**FOR THE DEGREE OF BACHELOR OF SCIENCE
COMPUTER SCIENCE**

COURSE CODE : CSC 213

COURSE TITLE : APPLICATION

DEVELOPMENT FOR THE INTERNET

DATE: 16 /06/2021

TIME: 02:00 A.M – 04:00 P.M

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

a) Web application

- can easily be viewed in any browser in any browser and do not need to be installed.
- Browser do not work without internet connection.

a) An application

- need to be installed from app store.
- can be accessed even offline

QUESTION ONE [COMPULSORY] [30 MARKS]

a. Differentiate between a web application and an application available in play store in relation to

b. Client

- written frontend
- request
- seen by user
- dependent

how a user accesses both applications.

[2 Marks]

Server

- written in script language
- response
- seen by the user
- independent

b. Illustrate your understanding of Client and Server-side programming showing a clear

distinction between the two.

[6 Marks]

c. As a web designer, detail Four goals for designing an easily usable website for your clients

c) user friendly

- navigation
- visibility
- interactivity
- consistent visual design

[4 Marks]

d. i. Why is a form important in a web page?

[2 Marks]

form allows the user to enter data that is sent to the server for processing

ii. Write code that will give the following output

[4 Marks]

Surname _____

First name _____

<form>

<input type="text" name="surname"/>

<input type="text" name="firstname"/>

</form>

e. i. What is CSS?

Cascading style sheet

[1 Mark]

ii. Write a simple CSS syntax and then describe the two main parts.

ii) selector {
property: value;
}

[3 Marks]

iii. Contrast between the class selector and the id selector

iii) class

- group of elements start with a dot or

[4 Marks]

iv. Describe two types of font families used in CSS

fullstop

id

- single element start with #

[4 Marks]

Generic- group of font families with simpler look
Font- a specific font family

QUESTION TWO [20 MARKS]

a. Compare and contrast native applications and hybrid applications

[6 Marks]

b. The objective of any website is to get viewed and read as much as possible. Discuss five key

elements that will make your website good in the eyes of a viewer or reader

[10 Marks]

c. What is the most important form element? Give at least three types.

[4 Marks]

a) Native applications are applications that are developed specifically for a particular operating system or platform, such as Android or iOS

-Hybrid applications, on the other hand, are applications that are developed using web technologies such as HTML, CSS, and JavaScript, but are packaged and distributed like native applications.

b) Intuitive navigation

- Constant visual design
- Use buttons and input fields
- subtitles
- using iframe (a website inside a website)

c)

input element type:

- input
- label
- button

QUESTION THREE [20 MARKS]

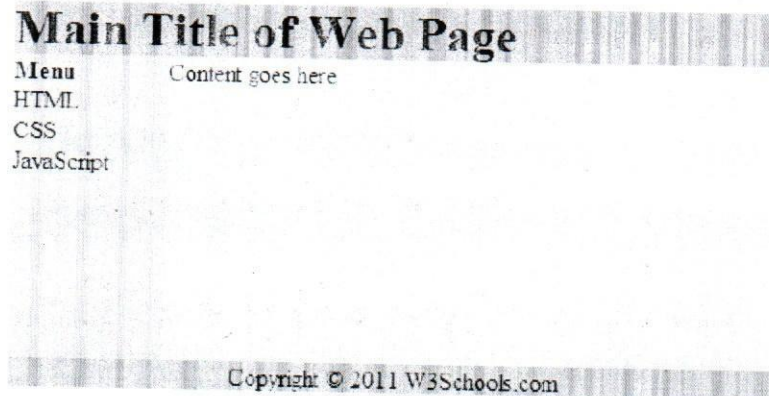
a. What is a website wireframe? [2 Marks]
A virtual guide that represents the skeleton framework of a website.

b. Describe two categories of wireframes a web designer can use in his work [4 Marks]
Low level fidelity: rough work and
high level fidelity: can be used in documentation

c. Illustrate three elements that wire framing aids in web design [6 Marks]

d. Write the code that will give the following: [8 Marks]
Lec 3

c)
Navigation design
Information
Interface



a
-Not secured
-complex to understand
-doesn't allow inheritance
-no variable
-undirected

QUESTION FOUR [20 MARKS]

a. Discuss five limitations of CSS [10 Marks]
b)
HEX (#FF0000)
RGB (32,22,21)
red

b. Write three ways background colour can be specified in CSS [3 Marks]

c. i. What is a shorthand property used for in CSS? [2 Marks]
writing more concise, readable and maintainable code, combining property values in a single line.

ii. Write the correct order of property values when using the shorthand property [5 Marks]
ii) Background - color

- image
- repeat
- attachment
- Position

QUESTION FIVE [20 MARKS]

a. Describe three ways in which CSS can be applied to web page [6 Marks]
Internal: in head
External: stylesheet
Inline:

b. Explain four link states available in CSS [4 Marks]
Active
Hover
Visited
Link

c. i. Give four list item markers that are used in CSS. [4 Marks]
list-style-type: circle or decimal or disk or square

ii. To specify an image as the list item marker, write a cross browser code that will ensure the image is placed equally in all browsers. [6 Marks]
Lec 6

```
ul
{
list-style-type:none;
padding: 0px;
margin: 0px;
}
li {
background-image:url();
background-repeat: no-repeat;
background-position: 0px 5px;
padding-left:14px
}
```