



(Knowledge for Development)

KIBABII UNIVERSITY

**UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR**

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

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

**COURSE CODE : CSC 115
COURSE TITLE : INTERNET
TECHNOLOGIES**

DATE: 21/12/2022 TIME: 9:00 A.M. – 11:00 A.M.

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION ONE (COMPULSORY) [30 MARKS]

a. Describe the following as used in the internet showing their differences

i. Computer network and distributed system [2 Marks]

ii. Client and server [2 Marks]

iii. Ethernet and WiMAX [2 Marks]

b. What is the relationship between the following?

i. A packet and a router [2 Marks]

ii. Web server and web pages [2 Marks]

iii. Bandwidth and communication medium [2 Marks]

c. Describe two wireless technologies used in a wide area network (WAN) [4 Marks]

d. Write the reasons that make multiuser and multitasking operating system good for use in the access of the internet? [4 Marks]

e. i. What are HTML tags? [2 Marks]

ii. Show the difference between start and end tag [2 Marks]

iii. Write HTML code that will output the following: [4 Marks]



iv. Describe the <pre> element. How does the text in it appear in the browser? [2 Marks]

QUESTION TWO [20 MARKS]

- a. i. Describe what is digital subscriber line and how it works [3 Marks]
- ii. Give details about ADSL and VoDSL as types of digital subscriber lines [4 Marks]
- b. i. What is HTML5? [2 Marks]
- ii. What are the key differences between HTML and HTML5? [4 Marks]
- iii. Describe the steps you take to save an HTML page so that it can be viewed using a browser at a later time. [3 Marks]
- iv. Write HTML code that will enable you specify the heading to be 100pixels [2 Marks]
- v. What is the role of DOCTYPE in HTML5? [2 Marks]

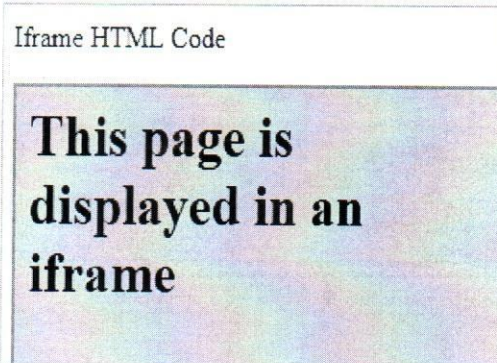
QUESTION THREE [20 MARKS]

- a. i. Differentiate between elements and attributes in HTML [4 Marks]
- ii. What are input elements in HTML5? [2 Marks]
- iii. Give three common applications of the input elements in a web page [3 Marks]
- b. i. What is the role of formatting tags in HTML5? [2 Marks]
- ii. Give 5 basic formatting tags indicating their use in HTML [5 Marks]
- c. Write down code that will give a copyright symbol in the footer of a web page [4 Marks]

QUESTION FOUR [20 MARKS]

a. i. Give HTML code that will output the following;

[6 Marks]



ii. Write an HTML table tag sequence that outputs the following:

[6 Marks]

50 pcs 100 500

10 pcs 5 50

b. Give 6 HTML tags with their description used to display the data in the tabular form [6 Marks]

c. Describe two tags used to separate a section of texts in HTML

[2 Marks]

QUESTION FIVE [20 MARKS]

a. i. What is the use of comments in HTML?

[2 Marks]

ii. Give an example of how to write a comment in a web page

[3 Marks]

b. i. Explain list elements in HTML.

[3 Marks]

ii. Given the HTML code below, write the output as it will appear in the browser [5 Marks]

```
<!DOCTYPE html>
  <html>
    <head>
      <title>HTML Interview Question
Definition List</title>
    <style>
      dt{
        font-weight: 600;
        font-size: 25px;
        color: red;
      }
      dd{
        font-weight: 500;
        font-size: 15px;
```

```

        color: #0070ff;
    }
</style>
    </head>
    <body>
        <dl>
            <dt><strong>HTML</strong>
            <dd>HTML stands for
            <dt><strong>CSS</strong></dt>
            <dd>CSS stands for Cascading
            <dt>Hypertext Markup Language</dt>
            <dd>Style Sheets</dd>
        </dl>
    </body>
</html>

```

iii. Describe the following tag stating what it is used for `<a>` [2 Marks]

c. i. Hyperlinks are an important tool in web design and they are created using HTML. What are hyperlinks? [2 Marks]

ii. Detail three ways in which hyperlinks can be displayed in a browser and show the distinction between them.

[3 Marks]