



*Knowledge for Development*

## **KIBABII UNIVERSITY**

**UNIVERSITY EXAMINATIONS  
2021 /2022 ACADEMIC YEAR**

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

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

**COURSE CODE : CSC 213**  
**COURSE TITLE : APPLICATION  
DEVELOPMENT FOR THE INTERNET**

**DATE: 01/02/2022**

**TIME: 09.00 A.M – 11.00 A.M.**

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**INSTRUCTIONS TO CANDIDATES**

**ANSWER QUESTIONS ONE AND ANY OTHER TWO.**

**QUESTION ONE (COMPULSORY) [30 MARKS]**

- a) Define imagemap? **[2 marks]**
- b) What is the use of external linking of style sheets? **[3 marks]**
- c) Use a code segment to illustrate external linking of style sheets. **[4 marks]**
- d) What is the difference between absolute positioning and relative positioning in CSS? **[4 marks]**
- e) What is the need of client-side scripting? **[3 marks]**
- f) With the aid of examples describe the three forms of control statements available in javascript? **[6 marks]**
- g. Explain various form input tags with examples **[6 marks]**
- h. Write a code segment that distinguishes div from span tag **[3 marks]**
- i. Explain the working of image tag with an example **[3 marks]**
- j. What is the function of alert boxes in Javascript, illustrate using a code **[4 marks]**

**QUESTION TWO [20 MARKS]**

- a. Write a javascript code segment that displays a triangle shown in the figure below **[6 marks]**

```
0 1 2 3 4 5
  1 2 3 4 5
    2 3 4 5
      3 4 5
        4 5
          5
```

- b. Write program using HTML, CSS and Java script that will prompt the user to key in three number and return the largest. **[8 marks]**

### QUESTION THREE [20 MARKS]

- a. Explain what you understand by the term control structures in javascripts. Using code segments explain the various control structures used in Javascript. [6 marks]
- b. Write a code segment that prompts the user to key in three numbers and eventually returns the mean or average value to the user. [6 marks]
- c. Convert the “if else source code” below into a switch [8 marks]

```
let today = new Date().getDay();
```

```
if (today == 0) {  
  console.log("Sunday!");  
}  
else if (today == 1) {  
  console.log("Monday!");  
}  
else if (today == 2) {  
  console.log("Tuesday!");  
}  
else if (today == 3) {  
  console.log("Wednesday!");  
}  
else if (today == 4) {  
  console.log("Thursday!");  
}  
else if (today == 5) {  
  console.log("Friday!");  
}  
else {  
  console.log("Saturday!");  
}
```

Check Largest number

Enter Number 1:

Enter Number 2:

Enter Number 3:


submit

- c. Write a code segment of function in Javascript that prompts the user to enter a number and ascertain whether it's a prime number or not. **[6 marks]**

#### QUESTION FOUR [20 MARKS]

- a. The figure below shows scores by a second year computer science student. Write a program that prompts the user to key in a score and then displays the appropriate grade to the user

[8 marks]

CSC 213	CSC 210	CSC 211	CSC 212	CSC 214
40	50	60	70	80

- b. Differentiate the Do While from the While loop using a code segment. [6 marks]
- c. Explain the creation of frames in HTML, write a code to display a frame using HTML

[6 marks]

#### QUESTION FIVE [20 MARKS]

- a. i. What is a CSS rule?  
ii. Write a code to show how the rule above applies. [4 marks]
- b. Write a code and explain the various ways to apply CSS styles to a web page? [6 marks]
- c. Compare between window. onload and onDocumentReady? [8 marks]
- d. Differentiate between undeclared and undefined variables? [4 marks]