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**KIRIRI WOMENS' UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATIONS, 2020/2021 ACADEMIC YEAR
SECOND YEAR, SECOND SEMESTER EXAMINATION
FOR THE DEGREE OF BACHELOR OF SCIENCE
(COMPUTER SCIENCE)**

KCS 209 - INTERNET APPLICATION PROGRAMMING

Date: 14th December, 2020
Time: 8.30am – 10.30am

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS

QUESTION ONE COMPULSORY (30 MARKS)

- a) Define the following terms;
- i) Web server
 - ii) ISP
 - iii) Web page
 - iv) Home page
 - v) URL
- (5 Marks)
- b) Describe the purpose of the following basic HTML tags.
- ```
<HTML>
 <HEAD>
 <TITLE> </TITLE>
 </HEAD>
 <BODY>

 </BODY>
</HTML>
```
- (5 Marks)
- c) Briefly describe the five step process for effective website design. (5 Marks)
- d) Giving one example in each case differentiate between the following.
- i) Open HTML tags and closed HTML tags
  - ii) HTML tag attribute and attribute value

- e) Explain four advantages of scripting languages. (4 Marks)
- f) Describe three applications of php as a scripting language. (8 Marks)
- (3 Marks)

**QUESTION TWO (20 MARKS)**

- a) Discuss five important characteristics that make PHP's practical nature possible. (5 Marks)
- b) JavaScript uses 3 dialog boxes; alert, confirm and prompt. Describe the use of each and write simple sample code that can generate each. (10 Marks)
- c) Describe the use of the following form input elements. For each, write example code that you would use to create the input element.
- i) Text field
  - ii) Checkbox
  - iii) Radio-button
  - iv) Submit buttons
  - v) Textarea

(5 Marks)

**QUESTION THREE (20 MARKS)**

- a) Citing two examples in each case differentiate between programming languages, scripting languages and mark-up languages. (6 Marks)
- b) Study the php code below and give an outline of the output when it is rendered on a browser.
- ```
<?php
$my_string = "Hello Bob. My name is: ";
$newline = "<br />";
echo $my_string."Bobetta".$newline;
echo "Hi, I'm Bob. Who are you? ".$my_string.$newline;
echo "Hi, I'm Bob. Who are you? ".$my_string."Bobetta";
?>
```

(6 Marks)

- c) Explain the following four elements of web page content.
- i) Clarity
 - ii) Brevity
 - iii) Informality
 - iv) Accuracy

(8 Marks)

QUESTION FOUR (20 MARKS)

a) Outline five factors you would consider when selecting an Internet Service Provider to host your website. (5 Marks)

b) In php, a connection to a database is done with the mysql_connect() function, which has the following syntax:

```
mysql_connect(servername,username,password);
```

Explain what each of the 3 parameters of stand for. (6 Marks)

c) Write the necessary HTML code that would display the page below when rendered on a browser. (image name: photo.jpg)

| | |
|---|---|
| <ul style="list-style-type: none">List Item 1List Item 2List Item 3 | <ul style="list-style-type: none">List Item 4List Item 5List Item 6 |
| Avoid losing floppy disks with important school... |  |

(9 Marks)

QUESTION FIVE (20 MARKS)

a) Differentiate between GET, POST and REQUEST methods. (6 Marks)

b) Write the necessary HTML code that would display the page below when rendered on a browser.

Please enter your name:

Which fruit has the highest energy value?

Which fruit is stereotypically the favourite of monkeys?
 apples
 oranges
 bananas
 pears

Which fruit are juicy?
 apple
 orange
 banana
 pear

(14 Marks)