



SOUTH EASTERN KENYA UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND BACHELOR OF INFORMATION TECHNOLOGY

SCI 303: WEB PROGRAMMING

DATE: 6TH DECEMBER, 2017

TIME: 8.00 -10.00 AM

INSTRUCTIONS TO CANDIDATES

- Section A(Compulsory)
 - Answer ANY TWO questions from section B
-

Question One

- a. Study the code below and provide the expected output. **(2 Marks)**

```
<html>
<body>

<?php
$i=1;
while($i<=5)
{
    echo "The number is " . $i . "<br>";
    $i++;
}
?>

</body>
</html>
```

- b. Write an html code that can be used to insert an image called lion located in drive C: in a folder named pictures in a web page. **(2 Marks)**

- c. Write an html code that would be used to apply background colour on a table. Use colourcode#99CCFF. **(1 Mark)**
- d. Write javascript code to to prompt user to enter their name and output through an alert box. **(3 Marks)**
- e. South Eastern Kenya University wishes to collect demographic data of their students. To fast track the process they have sought your expertize in creating a web application that would be used to collect and store the information for future reference. The table below shows the information to be collected.

| Registration no. | surname | Other name | gender | address | Phone no. |
|------------------|---------|------------|--------|---------|-----------|
| | | | | | |
| | | | | | |
| | | | | | |

Use the above information to answer the questions that follow:

- i. Write thesqlstatement that would create a database called personaldetails.(1 Mark)
- ii. Write the sqlstatements that would create the studentdetails table above.(4 Marks)
- iii. Write the client application that would be used to collect the information and post it to the database. **(5 Marks)**
- iv. Write the php code that would enable the client to connect to the database.(2 Marks)
- v. Using php write the server side application that would receive and process the student detail. **(5 Marks)**
- f. Distinguish between POST and GETS method **(2 Marks)**
- g. Outline **three** rules that govern the choice of variable names in Php **(3 Marks)**

SECTION B (40 marks)- Answer any Two Questions

Question Two

- a. Explain the five stages involved in web development. **(5 Marks)**
- b. Write html code to create the table 1. below **(5 Marks)**

Table: 1

| CLASS TIME TABLE | | | | |
|------------------|---------|-----------|----------|--------|
| Monday | Tuesday | Wednesday | Thursday | Friday |
| SCI303 | SCI 301 | SCI304 | SCI306 | SCI302 |

- c. write the JavaScript code that would give the output shown in figure 1 below. **(2 Marks)**



Figure: 1

- d. A baker has three types of cakes: small, medium and large. Write an html code that would facilitate the user to choose one of them. **(5 Marks)**
- e. Body elements determine how content of a web page would appear on the browser. Explain three such elements stating their effect on the content of the page. **(3 Marks)**

Question Three

- a. Distinguish between hypertext and hypermedia. **(2 Marks)**
- b. Explain the php code below, stating the expected output. **(3 Marks)**

```
<?php
$x=5;
$y=10;
function myTest()
{
global $x,$y;
$y=$x+$y;
}
myTest();
echo $y;
?>
```

- b.
 - i. Write the html code to output the form shown in figure 2 below. **(4 Marks)**

| | |
|--------|----------------------|
| Name: | <input type="text"/> |
| Phone: | <input type="text"/> |
| Email: | <input type="text"/> |

Figure: 2

- ii. write a javascript code to validate the email address field in figure 2 above. **(4 Marks)**
- c. With the aid of an example describe the PHP switch construct. **(4 Marks)**
- d. Using an example, describe the use of a confirm box in java script. **(3 Marks)**

Question Four

- a. Write html code to display the list below. **(3 Marks)**
 - A. Budget
 - a. Equipment
 - b. Salaries
 - B. Convention Plans
 - i. Accommodation
 - ii. Schedule
- b. Write a php code to illustrate how two strings can be concatenated. **(4 Marks)**
- c. A web programmer has prepared four web pages namely: personaldetails.html,contactus.html,jobs.html and payment.html. Write an html code to display the four documents on one screen each occupying on vertical division. **(4 Marks)**
- d. Write html code that would create the website represented by the site map figure 3 below.

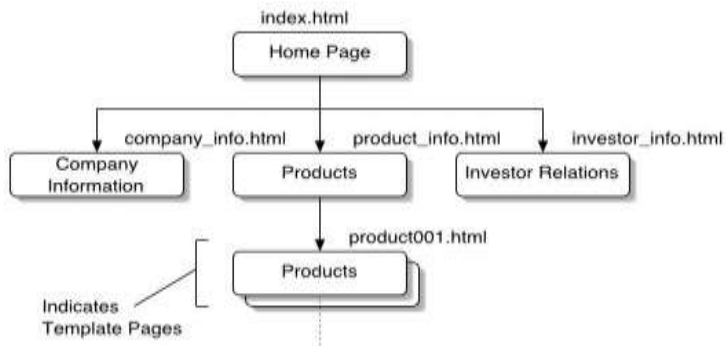


Figure: 3

(5 Marks)

- e. Using a diagram describe the client server architecture. **(4 Marks)**