

SCS 2108: Programming iv

Sample Questions

Duration 2 hours

Part A: 20 MCQs Part B: 5 structured questions

Part A

Important Instructions

- i. Select the most correct answer and **clearly shade answer** out of the given options in the MCQ marking sheet at the end of Part A. Use a pen to mark the final answers.
 - ii. **Two marks** will be award to **each correct answer**.
 - iii. A **penalty of negative 0.25 (-1/4) marks** will be imposed on **incorrect answers**.
 - iv. All MCQ questions will carry equal marks.
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1. Consider the following php code segment;

```
<?php
function test_func ($x,$y)
{
    $z=($x+$y)%2;

    return $z;
}

echo "output = " . test_func(5,10) . "<br>";
?>
```

The output of the above code segment is

- (a) 15 (b) 7.5 (c) 0 (d) 1

2. Consider the following PHP code segment;

```
<?php
$g_var=4; // global scope

function myTest ()
{
    $l_var=5; // local scope
    echo "<p>Test variables inside the function:";
    echo " g_var is: $g_var ";
    echo " l_var is: $l_var";
}
```

```

myTest ();
echo "<br> Test variables outside the function:";
echo " g_var is: $g_var ";
echo " l_var is: $l_var";
?>

```

3. The output of the above code segment is,

- (a) Test variables inside the function: g_var is: 4 l_var is: 5
Test variables outside the function: g_var is: 4 l_var is: 5
- (b) Test variables inside the function: g_var is: 4 l_var is: 5
Test variables outside the function: g_var is: 4 l_var is:
- (c) Test variables inside the function: g_var is: 4 l_var is:
Test variables outside the function: g_var is: 4 l_var is:
- (d) Test variables inside the function: g_var is: l_var is: 5
Test variables outside the function: g_var is: 4 l_var is:

(e) What is the output of the following code segment,

```

<?php
echo strpos("Hello world!", "world");
?>

```

- (a) 4 (b) 6 (c) 2 (d) 7

4. Which jQuery method is used to hide selected elements?

- a. hidden()
- b. hide()
- c. visible(false)
- d. display(none)

5. How can you make a numbered list?

- a. <dl>
- b.
- c. <list>
- d.

6. How can you make an e-mail link?

- a.
- b. <mail href="xxx@yyy">
- c. <mail>xxx@yyy</mail>
- d.

Mark Answers for Questions 1-20 (Part A)

1	a	b	c	d		11	a	b	c	d
2	a	b	c	d		12	a	b	c	d
3	a	b	c	d		13	a	b	c	d
4	a	b	c	d		14	a	b	c	d
5	a	b	c	d		15	a	b	c	d
6	a	b	c	d		16	a	b	c	d
7	a	b	c	d		17	a	b	c	d
8	a	b	c	d		18	a	b	c	d
9	a	b	c	d		19	a	b	c	d
10	a	b	c	d		20	a	b	c	d

Part B

1. Assume that database named *Inventory* containing a table named “*products*” exists. The “*products*” table consists of the fields *Product Code*(10 characters), *Product Description* (30 characters) and *Supplier Code* (10 characters) Assume that 10 records are available (data includes 5 products supplied by the supplier “SUP0005981”) in the database.

Write MVC based Code Igniter code(s) to search products supplied by “SUP0005981” and display the result. State any assumptions made

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2.

- (a) Briefly explain the statements labeled as A and B below

HTML

HTML is a markup language that is used for creating web pages. The HTML tutorial section will help you understand the basics of HTML, so that you can create your own web pages or website.

[Learn More »](http://www.tutorialrepublic.com/html-tutorial/)

A

B

A :

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B :

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(b)

Bootstrap Code Segments are shown on the left column and the output is shown on the right column below. Select the correct terms from the list of key words given below that would suit the labels 😊A, 😊B on the code segment in questions i and ii.

List of keywords = {form-group, list-inline, list-unstyled, dl-horizontal, list-group, list-group-item, navbar navbar-default, breadcrumb, nav nav-tabs, table, accordion, navbar navbar-static, nav nav-pills}

i	<pre> <ul class="😊A....."> Home Products Gadgets Accessories </pre>	<h3>Unstyled Unordered List</h3> <ul style="list-style-type: none"> Home Products <ul style="list-style-type: none"> Gadgets Accessories About Us Contact
---	---	--

	<pre> About Us Contact </pre>	
ii	<pre> <ul class="☺B....."> Home Products <li class="active">Accessories </pre>	<p>Home / Products / Accessories</p>

3.

- (a) Briefly describe how test automation becomes useful in agile software development.

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- (b) Write down the use(function) of the Selenium IDE. Provide an appropriate example use of IDE to illustrate your answer.

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4.

- (a) Briefly explain Scrum Lifecycle using an appropriate diagram.

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- (b) Consider the following statement;

“Content management is a collaborative process”

Do you agree with the above statement? State reasons for your answer.

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(c) Briefly explain the key functions offered by version control systems such as GitHub.

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(d)

- (i). What is meant by PEAR components?
- (ii). Write down a code segment to illustrate the use of PEAR DB

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