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May/June 2018

Question 1

1.1 A **web server** is a program on a **server** computer, somewhere out on the **Internet**, that delivers **web**pages to **web browsers**. The term **web server** also refers to an actual, physical computer that is running **web server** software.

1.2 Apache, Google Chrome

1.3 There are basically two main types of **website** - **static and dynamic**. A **static** site is one that is usually written in plain HTML and what is in the code of the page is what is displayed to the user. A **dynamic** site is one that is written using a server-side scripting language such as PHP, ASP, JSP, or Coldfusion.

1.4 Notepad++ - this is used to edit and create source codes and also includes syntax highlighting
    XAMPP -   Apache which is a web server use to active the localhost machine
                MySQL which is a database server use to create and edit databases [PHPMyAdmin]
    Google Chrome – this use to run the website/webpage and this is a browser

Question 2

2.1
   a) $studName = "James";
   b) $noModules = 4;
   c) define('regCost', 1213.11);
   d) $finYear = true;

2.2 $totalFee = regCost * $noModules;

2.3 $result = ($finYear == true ? "FY Student" : "Not FY Student");

2.4 echo "<p>Student's Name: $studName, Total Fees: $totalFee, Final Year: $result </p>";

Question 3

3.1 t1 – radio
    t2 – radio
    t3 – radio
    n1 – option
    n2 – option
    n3 – option

v1 – email
v2 – cellphone
v3 – post

3.2 preference.php

3.3

```php
function accParm($result){
    if(isset($_GET['option']) ==  'Email'){
        $result = "Fast Mail";
    }elseif (isset($_GET['option']) ==  'Cellphone'){
        $result = "Expensive";
    }else{
        $result = "Slow Mail";
    }
    echo $result;
}
```

3.4

```php
function readData(){
    if(isset($_GET['submit'])){
        accParm($result);
    }else{
        echo "Nothing Selected";
    }
}
```

Question 4

4.1 The = sign means assignment operator
    The == sign means equal to
    first code is assigning a value of 17 to the variable $age but the second one is saying it should be equal to 17
4.2 && is AND operator
    || is OR operator
    the first code test if both conditions evaluates to true while the second tests if one condition is true
4.3
    a) Rest day
    b) Invalid day
    c) Work day
    d) Rest day
4.4

```php
for($i=1; $i <= $list.length(); $i++){
    if($list.length() > 10){
        $count++;
    }else{
```

```
        $count = 0;
    }
}
```

Question 5
5.1

```php
$selQuery = 'SELECT code, name FROM modules';
    $statemnt = $db->prepare($selQuery);
    $statemnt->execute();
    $modules = $statemnt->fetchAll();
    $statemnt->closeCursor();
        foreach ($modules as $module){
            echo $module['code']. " " . $module['name']."<br>";
        }
```

5.2

```php
$delQuery = "DELETE FROM modules WHERE code = $moduleCode";
    $statemnt = $db->prepare($delQuery);
    $statemnt->execute();
    $modules = $statemnt->fetchAll();
    $statemnt->closeCursor();
```

Question 6
6.1 $date = date('m/d/Y h:i:s a', time());
   $now = new DateTime();

6.2 The main **purpose** of a **cookie** is to identify users and possibly prepare customized Web pages or to save site login information for you. When you enter a Web site using **cookies**, you may be asked to fill out a form providing personal information; like your name, e-mail address, and interests.

6.3 **Session Tracking** is a way to maintain state (data) of an user. It is also known as **session** management in servlet.

6.4 Session ID Regeneration - Session ID regeneration reduces risk of stolen session ID.
   Session Data Deletion - Obsolete session data must be inaccessible and deleted.

Oct/Nov 2017

Question 1

1.1 PHP is a server side scripting language which stands for Hyper-Text Pre=-Processor

1.2 XAMPP

1.3 Yes, because it allows embed HTML code

1.4 Google Chrome

1.5 MySQL

1.6 Register on the hosting area and login and verify details

Upload all files to the hosting area

Create a database to get the connection string

Export the local tables and import it on the server to keep the same tables

Change the connection string on the files

Question 2

2.1

```
$modCode = 'ICT2613';
echo 'Good luck with '. $modCode . 'exam!';
```

2.2 It is used to **encode** user input on a website so that users cannot insert harmful HTML codes into a site.

2.3

```
$str = 'Good luck with '. $modCode . 'exam!';
echo htmlspecialchars($str);
```

2.4

```
echo "Good luck with $modCode exam";
```

2.5

```
$moduleArray = array('ICT2613','ICT2612','ICT1513');
```

2.6

```
function displArray($modCode){
    echo "Good luck with $modCode exam";
}
```

2.7

```
for($i=0; $i<=$moduleArray.length(); $i++){
    displArray($modCode);
}
```

Question 3

3.1

3.2

```
<form action='question3.php' method='post'>
<input type='submit' name='submit' value='submit'/>
```

3.3 Get
3.4 Post
3.5

```php
$moduleArray = array('ICT2613'=>'PHP','ICT2612'=>'Java','ICT1513'=>'JavaScript');

if(isset($_POST['submit'])){
    $modules = $moduleArray;
    foreach($modules as $module){
        echo $module . "<br>";
    }
}
```

Question 4

4.1

```
$age = 20;
$score = 60;

$age = 16;
$score = 39;

$age = 15;
$score = 60;
```

4.2

```php
Switch($modCode){
    Case 'ICT2613':
    $result = 'PHP';
    break;
    Case 'ICT2612':
    $result = 'Java';
    break;
    Case 'ICT1513':
```

```php
    $result = 'JavaScript';
    break;
    default:
    $result = 'Unknown';
    break;
}
```

4.3

```php
$i = 10;
while($i <= 1){
    echo $i . " ";
    $i-=2;
}
```

Question 5

5.1 s

```php
try{
    $conn = new PDO("mysql:host=$servername;dbname=diploma", $username,
$password);
    // set the PDO error mode to exception
    $conn->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
    //echo "Connected successfully";
}catch(PDOException $e){
    echo "Connection failed: " . $e->getMessage();
}
```

5.2

ICT3612, Advanced Internet Programming
ICT2612, Interactive Programming
ICT2613, Internet Programming

5.3 **MVC**, or Model-View-Controller is a software architecture, or design pattern, that is used in software engineering, whose fundamental principle is based on the idea that the logic of an application should be separated from its presentation.

Question 6

6.1 This depend on the current date 2018 Oct 24
6.2 ict2613
   3162tci

May/June 2017

Question 1

```php
$moduleCode = "ICT2613";
$moduleName = "Internet Programming";
echo "Code $moduleCode, Name $moduleName";
```

Question 2

2.1

```php
$fullName = $_POST['full_name'];
$rone = $_POST['rone'];
$rtwo = $_POST['rtwo'];
$rthree = $_POST['rthree'];
```

2.2

```php
if(isset($_POST['submit'])){
    echo "Full name: $fullname";
    if(isset($rone) == true ){
        echo "Quit Smoking";
    }if(isset($rtwo == true ){
        echo "Lose Weight";
    }if(isset($rthree) == true ){
        echo "Save for a holiday";
    }else{
        echo "Invalid";
    }
}
```

2.3

```php
if($fullName == " "){
    echo "Incomplete Form - All Fields Required";
    if($rone == "" || $rtwo == "" || $rthree == ""){
        echo "Incomplete Form - All Fields Required";
    }
}
```

Question 3

3.1

```php
$selQuery = 'SELECT * FROM modules';
    $statemnt = $db->prepare($selQuery);
    $statemnt->execute();
    $modules = $statemnt->fetchAll();
    $statemnt->closeCursor();
        foreach ($modules as $module){
            echo $module['code']. ", " . $module['name']. ", " .
$module['lecturer'];
        }
```

3.2

```php
$insertQuery = "INSERT INTO `modules`
            (`code`, `name`, `lecturer`)
        VALUES
        ('$nCode','$nName','$nLecturer')";

    $statemnt = $db->prepare($insertQuery);
    $statemnt->execute();
    $modules = $statemnt->fetchAll();
    $statemnt->closeCursor();
```
3.3

```php
$upd_sql = "UPDATE `module` SET name = '$nName', WHERE `code` = '$nCode'";
```
3.4

```php
$del_sql = "Delete FROM modules WHERE code ='$nCode'";
```

Question 4

4.1

    a) −

    b) *

    c) *

    d) +

    e) ++

4.2

```php
function markFunc($mark){
    return $result;
}
```
4.3

```php
markFunc(49);
```
4.4

```php
for($i=1; $i<=7; $i++){
    $randNum = rand(1,4);
    Switch($randNum){
        Case 1:
        echo 'East';
        break;
        Case 2:
        echo 'West';
        break;
        Case 3:
        echo 'South';
        break;
        Case 4:
        echo 'North';
        break;
    }
}
```

4.5 Even number
    Odd number
    Even number
    Odd number

4.6

```php
$i = 4;
do{
    if($i1 % 2 != 0){
        echo "Odd number <br>";
    }else{
        echo "Even number <br>";
    }
    $i++;
}while ($i <= 7);
```

Question 5
5.1 7
5.2 ICT26
5.3 T2613

Question 6
a) $date = new DateTime(d-m-Y);
b) $today = Date();
c) var_dump($date->diff($today)->m);

Question 7
7.1 4
7.2 5,6,7,8
7.3 $array = array(1=>'One',2=>'Two',3=>'Three')
7.4 Three,Two,One