

Internal Assessment Test 3-Scheme & Solution -July 2023

| | | | | | | | | | | |
|---------------------------------------|---|------------|----------|------------|-----------|----------|-------------|-------|----|-----|
| Sub : | WEB TECHNOLOGY AND ITS APPLICATIONS | | | | Sub Code: | 18CS63 | Branch: | ISE | | |
| Date: | 5/07/2023 | Duration : | 90 min's | Max Marks: | 50 | Sem/Sec: | VI A, B & C | | | OBE |
| Answer any FIVE FULL Questions | | | | | | | | MARKS | CO | RBT |
| 1 | <p>Describe the functionalities and differences between the \$_GET and \$_POST super global arrays. The \$_GET and \$_POST arrays are the most important superglobal variables in PHP since they allow the programmer to access data sent by the client in a query string.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <pre><form action="processLogin.php" method="GET"> Name <input type="text" name="uname" /> Pass <input type="text" name="pass" /> <input type="submit"> </form></pre> </div> <div style="margin: 10px 0;"> <p>HTML (client) ↓</p> <p>Browser (client)</p> <div style="border: 1px solid gray; padding: 5px; display: inline-block; margin: 5px;"> Name <input type="text" value="ricardo"/> Pass <input type="text" value="pw01"/> <input type="button" value="Submit Query"/> </div> <p>↓</p> <p>HTTP request</p> <p>GET processLogin.php?uname=ricardo&pass=pw01</p> </div> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <pre>// within fileprocessLogin.php echo \$_GET["uname"]; // outputs ricardo echo \$_GET["pass"]; // outputs pw01</pre> </div> <p>↓</p> <p>PHP (server)</p> | | | | | | 10 | CO4 | L2 | |
| | <ul style="list-style-type: none"> • Get requests parse query strings into the \$_GET array • Post requests are parsed into the \$_POST array <p>This mechanism greatly simplifies accessing the data posted by the user, since you need not parse the query string or the POST request headers!</p> | | | | | | | | | |
| 2 | <p>Explain the concepts of data encapsulation, inheritance, and polymorphism in the context of PHP with example. Perhaps the most important advantage to object-oriented design is the possibility of encapsulation, which generally refers to restricting access to an object's</p> | | | | | | 10 | CO4 | L3 | |

| | | | | |
|-------|---|---|-----|----|
| | <p>internal components.</p> <p>Another way of understanding encapsulation is: it is the hiding of an object's implementation details</p> <p>A properly encapsulated class will define an interface to the world in the form of its public methods, and leave its data, that is, its properties, hidden (that is, private).</p> <p>If a properly encapsulated class makes its properties private, then how do you access them?</p> <ul style="list-style-type: none"> • getters • setters <p>A getter to return a variable's value is often very straightforward and should not modify the property.</p> <pre>public function getFirstName() { return \$this->firstName; }</pre> <p>etter methods modify properties, and allow extra logic to be added to prevent properties from being set to strange values.</p> <pre>public function setBirthDate(\$birthdate){ // set variable only if passed a valid date string \$date = date_create(\$birthdate); if (! \$date) { \$this->birthDate = \$this->getEarliestAllowedDate(); } else { // if very early date then change it to // the earliest allowed date if (\$date < \$this->getEarliestAllowedDate()) { \$date = \$this->getEarliestAllowedDate(); } \$this->birthDate = \$date; } }</pre> | | | |
| 3 (a) | <p>Write a PHP program to display a digital clock which displays the current time of the server</p> <pre><!DOCTYPE HTML></pre> | 5 | CO4 | L2 |

| | | | | |
|-------|---|---|-----|----|
| | <pre> <html> <head> <meta http-equiv="refresh" content="1"/> <style> p { color:white; font-size:90px; position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); } body{background-color:black;} </style> <p> <?php echo date(" h: i : s A");?> </p> </head> </pre> | | | |
| 3 (b) | <p>What is session? Explain How to set the session state.</p> <p>All modern web development environments provide some type of session state mechanism.</p> <p>Session state is a server-based state mechanism that lets web applications store and retrieve objects of any type for each unique user session.</p> <p>Session state is ideal for storing more complex objects or data structures that are associated with a user session.</p> <ul style="list-style-type: none"> • In PHP, session state is available to the via the <code>\$_SESSION</code> variable • Must use <code>session_start()</code> to enable sessions. | 5 | CO4 | L2 |

```

<?php
session_start();

if ( isset($_SESSION['user']) ) {
    // User is logged in
}
else {
    // No one is logged in (guest)
}
?>

```

LISTING 13.5 Accessing session state

```

<?php
include_once("ShoppingCart.class.php");

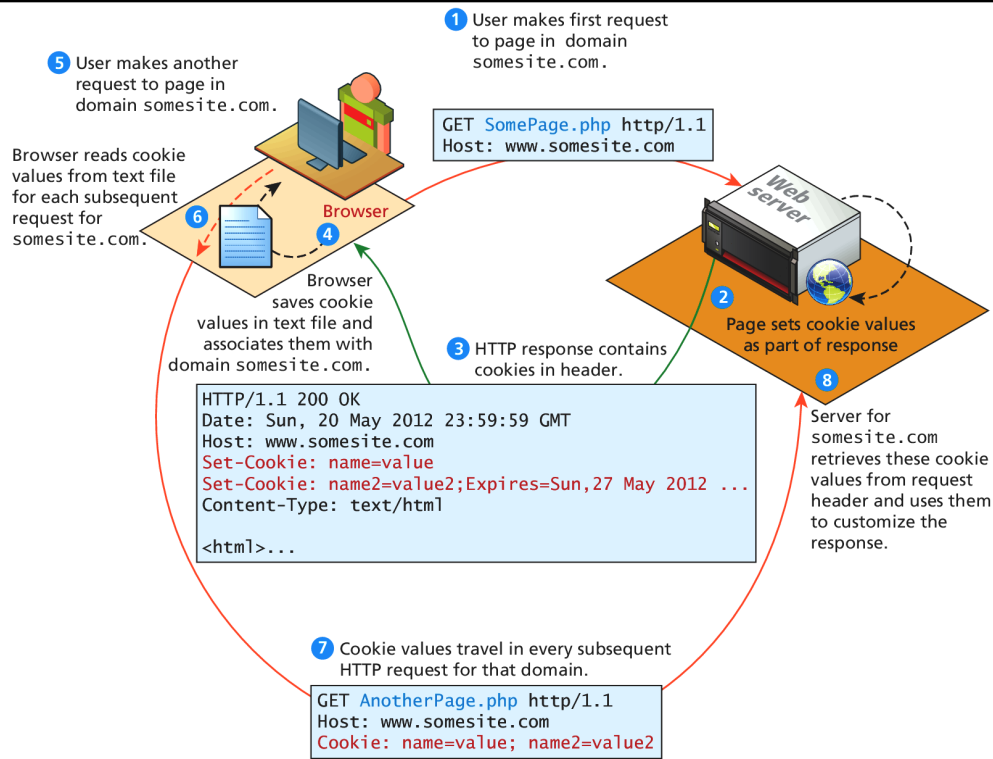
session_start();

// always check for existence of session object before accessing it
if ( !isset($_SESSION["Cart"]) ) {
    //session variables can be strings, arrays, or objects, but
    // smaller is better
    $_SESSION["Cart"] = new ShoppingCart();
}
$cart = $_SESSION["Cart"];
?>

```

LISTING 13.6 Checking session existence

| | | | | |
|---|---|----|-----|----|
| 4 | <p>What are HTTP cookies? What is their purpose? Describe exactly how cookies work.</p> <p>cookies are a client-side approach for persisting state information.</p> <p>They are name=value pairs that are saved within one or more text files that are managed by the browser.</p> <p>While cookie information is stored and retrieved by the browser, the information in a cookie travels within the HTTP header.</p> <ul style="list-style-type: none"> • Sites that use cookies should not depend on their availability for critical features • The user can delete cookies or tamper with them | 10 | CO4 | L3 |
|---|---|----|-----|----|



5 What does \$() short stand for in jQuery? Explain any 3 jQuery form selectors.

10

CO5

L3

Query()

Is reserved for selecting elements from the DOM.

Because it is used so frequently, it has a shortcut notation and can be written as

\$()

- `$("*")` **Universal selector** matches all elements (and is slow).
- `$("tag")` **Element selector** matches all elements with the given element name.
- `$(".class")` **Class selector** matches all elements with the given CSS class.
- `$("#id")` **Id selector** matches all elements with a given HTML id attribute.

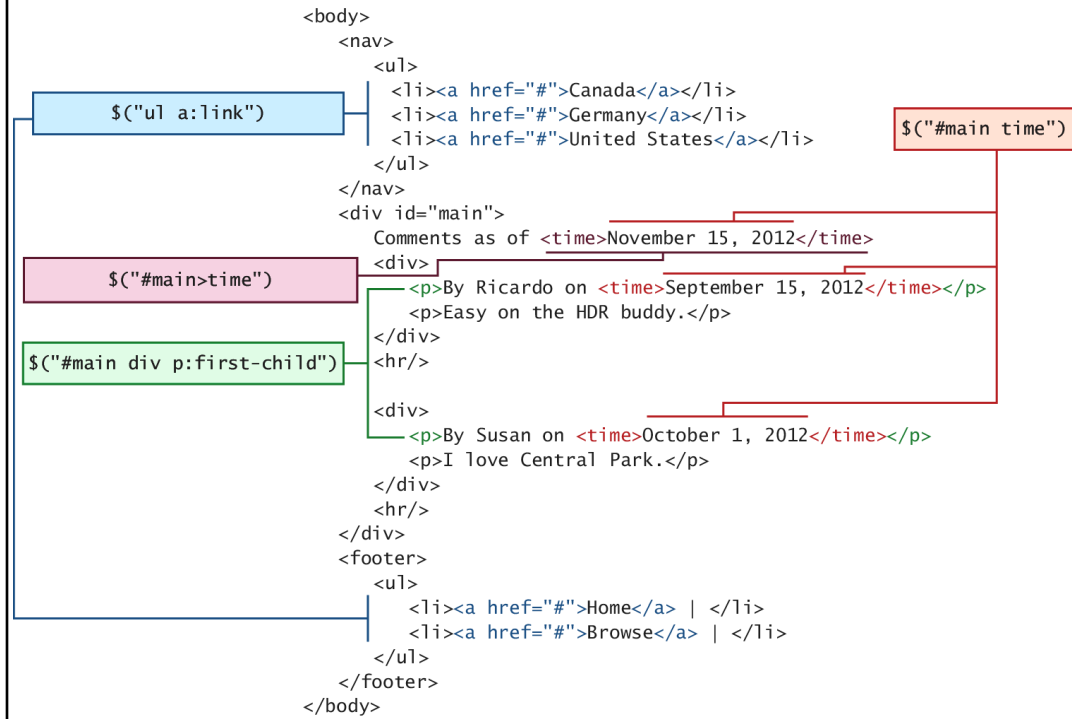
For example, to select the single <div> element with id="grab" you would write:

```
var singleElement = $("#grab");
```

To get a set of all the <a> elements the selector would be:

```
var allAs = $("a");
```

These selectors replace the use of getElementById() entirely.



6 What is AJAX? Explain AJAX request by writing UML diagram

10

CO5

L2

Asynchronous JavaScript with XML (AJAX) is a term used to describe a paradigm that allows a web browser to send messages back to the server without interrupting the flow of what's being shown in the browser.

