

Question One (10 multiple choice with 10 marks)

Question Two (T & F)

Question 2: (10 Marks)

For each of the following statements, answer with True or False.

1	CSS is a server-side programming technology used to build web pages.
2	unset() method determines whether a certain variable has already been declared by PHP.
3	In the POST method the query string is part of URL.
4	Defining a class as final in PHP disallow inheriting from this class.
5	SQL injection attack can be avoided using prepared statement or stored procedure.
6	JSP is translated into Java servlet by a Web server when a JSP is called.
7	A DTD describes the tree structure of a document and something about its data.
8	One primary task of web browser is to convert URL into HTTP request.
9	Java Server Pages are executed on the client-side.
10	To declare variable in PHP data type must be defined before the variable name.

Question Three (4 Theoretical Questions)

- A) Explain the following design patterns : strategy pattern and singleton pattern .
- B) Write the seven steps of database access (no codes) .
- C) Differentiate between buffered and unbuffered queries .
- D) With the help of drawing , discuss the MVC model and its JSP.

Question Four (3 questions to write the output)

1)

```
1) Write the output for the following code (6 Ma
<?php
    $x = 5;
    function test() {
        echo "x1 is: $x";
    }
    test();
    echo "x2 is: $x";
?>
```

Answer is :

X1 is:

X2 is: 5

2)

```
2) What will be the output of the following code: (8 M
<!DOCTYPE HTML>
<html>
<body>
<a href="http://test.com">Visit the website</a>
<p>I like <span>apples</span> and oranges.</p>
<a href="http://w3c.org">Visit the W3C website
</body><!-- w w w . j a v a 2 s . c o m -->
</html>
```

Answer is :

Visit the website

I like apples and oranges.

Visit the W3C website

3) What is the output of the following Javascript code, if the input:

- I. numb=20
- II. numb=5

```
<!DOCTYPE html>
<html>
  <body>
    <h1>JavaScript Can Validate Input</h1>
    <p>Please input a number between 1 and 10:</p>
    <input id="numb" type="number">
    <button type="button"
      onclick="myFunction()">Submit</button>
    <p id="demo"></p>
    <script>
      function myFunction() {
        var x, text;
        x = document.getElementById("numb").value;
        if (isNaN(x) || x < 1 || x > 10) {
          text = "Input not valid";
        } else {
          text = "Input OK";
        }
        document.getElementById("demo").innerHTML = text;
      }
    </script>
  </body>
</html>
```

Answer is :

Input not valid

Input OK

Question Five (3 short code questions)

1- The following function is to create a cookie in PHP :

```
<? Php
$value = 'test';
Setcookie('myCookie' , &value, time() + 3600, '/') ?>
```

Write a code that will delete the created cookie?

Answer is : Setcookie('' , &value, time() - 8600, '/')

2- Write a PHP foreach() loop that prints the value of an array as the following result :

Red
Green
Blue
Yellow

Answer is :

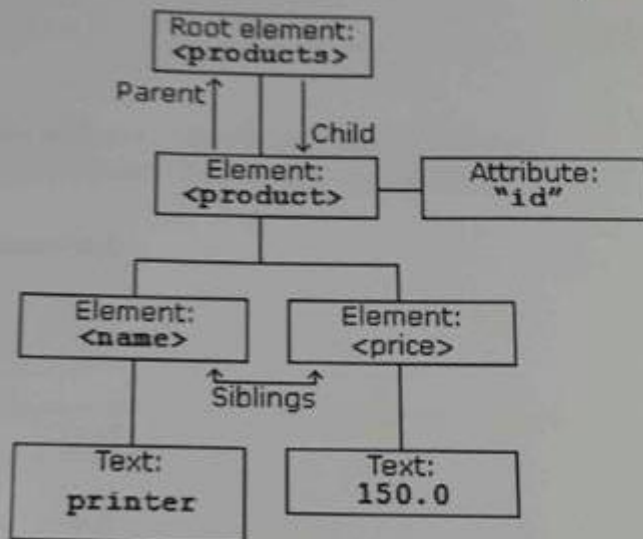
```
$colors= array(red , ..... )
Foreach ($colors as $value )
{ echo "$value" . "<br/>" }
```

3- Write the code to include an external CSS to html document , Note: External CSS called "mystyle.css"

Answer is: using <link> tagetc

Question six (XML code)

1) Create XML document to display the data of products according to the following tree. Display the data of any 2 different products. Tree structure for the products is as follows: (9 Marks)



Question Seven

(LONG CODE question IN JSP , it was 2 pages .. one for writing an HTML FORM using GET method, and the second page for receiving the user output from user in JSP by dealing with request.getvalue() for example ..)

2) Create a JSP webpage (index.jsp) ask the user to enter two numbers. Then when the user submit the page using GET method, he will be redirected to another page (max.jsp) that will find the Maximum the two numbers passed from the first page and print the maximum number on the page.

(16 Marks)

Answer	<pre> Index.jsp <%@ page contentType="text/html; charset=utf-8" language="java" import="java.sql.*" errorPage="" %> <head> <title>Index</title> </head> <body> <form <p> Enter the first number: <input name=..... type=..... </p> <p> Enter the second number: <input </p> <p> <!--submit button here --> <input </p> </form> </body> </html> </pre>
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