# CSE102 – Introduction to Web Design and Programming Midterm-1 Exam

### Section A: Multiple choice questions (2 points each \* 25 questions = 50 points)

- 1. Which of the following is incorrect IPv4 address?
  - a) 132.121.38.172
  - b) 99.76.44.243
  - c) 154.324.120.87
  - d) 127.0.0.1
- 2. Which command is used for determining the IP address of a domain name?
  - a) domainlookup
  - b) iplookup
  - c) nslookup
  - d) domaintoip
- 3. Which port number is commonly used by HTTP Internet service?
  - a) 25
  - b) 22
  - c) 8888
  - d) 80
- 4. What does HTML stand for?
  - a) Hyper Text Markup Language
  - b) Home Tool Markup Language
  - c) Hyperlinks and Text Markup Language
  - d) Hyper Type Markup Language
- 5. Which organization the Web standards?
  - a) Mozilla
  - b) Microsoft
  - c) The World Wide Web Consortium
  - d) Netscape
- 6. What does CSS stand for?
  - a) Creative Style Sheets
  - b) Colorful Style Sheets
  - c) Computer Style Sheets
  - d) Cascading Style Sheets

7. (Choose True/False). You can use the same CSS styling class on multiple HTML elemental True	ts.
b) False  8. Which is the correct CSS syntax for black color of text in body?	
a) body:color=black	
b) {body;color:black}	
c) {body:color=black(body}	
d) body {color: black}	
9. How do you insert a comment in a CSS file?	
a) this is a comment	
b) /* this is a comment */	
c) // this is a comment	
d) // this is a comment //	
10. What is the correct HTML syntax for inserting an image?	
a) <img alt="MyImage" image.gif="" img=""/>	
b) <image alt="MyImage" src="image.gif"/>	
c) <img alt="MyImage" src="image.gif"/>	
d) <img alt="MyImage" href="image.gif"/>	
1. How can you make a HTML list that lists the items with numbers?	
a) ol	
b) dl	
c) ul	
d) list	
12. How can you open a link in a new browser window?	
a) <a href="url" target=" blank"></a>	
b) <a href="url" target=" self"></a>	
c) <a href="url" target=" new"></a>	
d) <a href="url" target="_window"></a>	
13. Choose the correct HTML tag for the largest heading.	
a) head	
b) h1	
c) h6	
d)header	

$14. \text{Each HTML element can have only one ID and Each page can have only one element with that ID.} \\ a) \text{True} \\ b) \text{False}$
15. What is the correct HTML for creating a hyperlink?  a) <a url="http://www.w3schools.com">W3Schools.com</a> b) <a href="http://www.w3schools.com">W3Schools</a> c) <a>http://www.w3schools.com</a> d) <a name="http://www.w3schools.com">W3Schools.com</a>
16. The page title is inside thetag.  a) Body b) Head c) Division d) Table
<ul> <li>17. In what form are CSS style rules presented?</li> <li>a) selector { property: value }</li> <li>b) selector { property= value }</li> <li>c) selector ( property: value )</li> <li>d) selector ( property= value )</li> </ul>
18. Which CSS property applies a color to text?  a) text-color b) foreground-color c) background-color d) color
<ul> <li>19. What does the CSS ID selector do?</li> <li>a) Apply the style to a specific element</li> <li>b) Apply the style to all the elements</li> <li>c) Apply the style to a group of elements</li> <li>d) Apply the style to elements of the same type</li> </ul>
20. What selector should you use when applying a style to multiple elements?  a) ID  b) Class c) Type

d) Any of the above

21. Which of the following attributes of the <img/> tag displays alternate text for the image?  a) caption b) text c) alt d) identify
<ul> <li>22. Where in the HTML document is the correct place to refer to an external style sheet?</li> <li>a) In the <body> section</body></li> <li>b) At the top of the document</li> <li>c) In the <head> section</head></li> <li>d) At the end of the document</li> </ul>
23. Which HTML tag is used to define an internal style sheet?  a) <css> b) <style> c) <script> d) <a></td></tr><tr><td>24. Which HTML attribute is used to define inline styles?  a) class b) style c) styles d) font</td></tr><tr><td><ul> <li>25. Which method is ideal for applying the same style to an entire website?</li> <li>a) Internal CSS</li> <li>b) Inline CSS</li> <li>c) External CSS</li> <li>d) All of the above</li> </ul></td></tr></tbody></table></style></css>

## Section B: Descriptive questions (4 given, answer any 3 questions. 5 points each \* 3 questions = 15 points)

_	icotions 15 points)
	1. Draw the three-tier architecture of web applications and explain each of the components briefly
	O.E. J.
	2. Explain in detail the process of HTTP transactions.

URL scheme	Purpose
http	

3. What are the services provided by following URL schemes?

mailto	
Callto	
https	
file	

<sup>4.</sup> What is your advice for designing an effective, user-friendly webpage? Write at least five points.

#### Section C: Debugging questions (10 points)

1.(5 pts) Following code contains three errors. Identify the places by circling where the error is and write down what should be the correct code.

```
a. <!doctype html>
b. <html>
c. <head>
d. <title>A Basic Webpage</title>
e. </head>
f. <body>
g. <section>
h. <h1>Big on Sports</h1>
i. Sports are fun and good for you ...
j.  What is your favorite sport? ... And here is a short
  list:
k. 
1. Baseball  Basketball 
m.  Tennis   Soccer 
n. 
o. <section>
p. </body>
q. </html>
```

a. html	
b. <html></html>	
c. <head></head>	
d. <title>A Basic Webpage</title>	
e.	
f. <body></body>	
g. <article></article>	
h. <h1>The Green Earth Project</h1>	
i. <h3>Project Background</h3>	
j.Put first paragraph here	
k. Put second paragraph here	
l. <h4>A Successful Past</h4>	
m.Another paragraph here	
n.	
o. <section></section>	
p. <h3>Current Status of Green Earth</h3>	
q.Another paragraph here	
r.	
s. <section></section>	
t.Future Goals	
u.	
v.	
w.	

2. (5 pts) Following code contains three errors. Identify the places by circling where the error is and

write down what should be the correct code.

3.(5 pts) Following code contains three errors. Identify the places by circling where the error is a write down what should be the correct code.	and
a. html	
b. <html></html>	
c. <head></head>	
<pre>d. <title>Centering Different Elements</title></pre>	
e. <body style="margin: 50px"></body>	
f. <section></section>	
<pre>g. <link <="" href="centerstyle.css" pre="" type="text/css"/></pre>	
title="center"/>	
h. <h2>Centering Different Elements</h2>	
i. Resize the window and see how each of these elements	
centers.	
j.	
k. <h3 class="center">My Title</h3>	
<pre>l. Topic of the Day</pre>	
<pre>m.</pre>	
weight:bold">Announcemenet	
<pre>n. </pre>	
<pre>o. <img alt="Neptis Butterfly" src="neptis.jpg"/></pre>	
p.	
q.	
r.	
s.	
	_
	_

# CSE102 – Introduction to Web Design and Programming Midterm-2 Exam

### Section A: Short answer questions on PHP (2 pts each \* 9 questions = 18 pts)

26.	What is the difference between unary, binary, and ternary operators in PHP?
27.	Name the three conditional statement types in PHP.
	What command can you use to skip the current iteration of a loop and move on to the next one ir PHP?
29.	What is the main benefit of using a function?
30.	How can you incorporate one PHP file within another?

31.	How do you create a new object in PHP?		
32.	What is the difference between a numeric and an associative array in PHP?		
33.	How can you determine the number of elements in an array?		
34.	What is the purpose of the explode function?		
Sec	tion B: Short answer questions on JavaScript (Q. 1: 1 pt, other: 2 pts each * 9 questions = 18 pts)		
1.	Are JavaScript functions and variable names case-sensitive or case-insensitive? (1 pt)		
2.	By default, to which part of a document will JavaScript code output?		

3.	How can you include JavaScript code from another source in your documents?
4.	Which JavaScript function is the equivalent of echo or print in PHP?
5.	What characters are used to define a JavaScript variable name?
6.	When would you use the === (identity) operator in JavaScript?
7.	What is the best way to force your own operator precedence in JavaScript?
8.	What keyword is used to create an object in JavaScript?

9.	Name a way to return multiple values from a JavaScript function.
10.	What JavaScript method can you use to send a form for validation prior to submitting it?
11.	Write a JavaScript regular expression to match either of the words hot or hat.
12.	Using regular expressions, write a JavaScript function to test whether the word make exists in the string Adversity and loss make a man wise.

#### Section C: Multiple choice questions on PHP. Circle appropriate choice. (1.5 pts each \* 12 = 18 pts)

- 1. How to define a function in PHP?
  - a) function {function body}
  - b) function functionName(parameters) {function body}
  - c) data type functionName(parameters) {function body}
  - d) functionName(parameters) {function body}
- 2. What will be the output of the following PHP code?

```
<?php
function calc($price, $tax="")
{
     $total = $price + ($price * $tax);
     echo "$total";
}
calc(50, 0.2);
?>
a) Error
b) 50
c) 60
d) 42
```

```
<?php
$op2 = "be";
function foo($op1)
{
    global $op2;
    echo $op2;
    echo $op1;
}
foo(" awesome");
?>
a) Awesome be
```

- b) be awesome
- c) Beawesome

d) awesome

4. What will be the output of the following PHP code?

```
<?php
function foo($msg)
{
    echo "$msg";
}
$var1 = "foo";
$var1("This works!!");
?>

a) Error
b) $msg
c) 0
d) This works!!
```

5. Which of the following are correct ways of creating an array?

```
I. city[0] = "Seoul";
II. $city[] = array("Seoul");
III. $city[0] = "Seoul";
IV. $city = array("Seoul");
a) iii) and iv)
b) ii) and iii)
c) Only i)
d) ii), iii) and iv)
```

```
<?php
$country = array("Mauritius" => array
("population" => "1,265,985", "capital" => "Port Luis"),
"Maldive" => array("population" => "133,412",
"capital" => "Male"));
echo $country["Mauritius"]["population"];
?>

a) Mauritius 1,265,985
b) 1,265,985
```

- c) population 1,265,985
- d) Mauritius population

#### 7. What will be the output of the following PHP code?

```
<?php
$state = array ("Karnataka", "Goa", "Tamil Nadu",
"Andhra Pradesh");
echo (array_search ("Goa", $state));
?>
a) True
b) 2
c) False
d) 1
```

8. What will be the output of the following PHP code?

```
<?php
$cars = array("Audi", "Mercedez", "Opel");
echo "I like ".$cars[1].", ".$cars[2]." and ".$cars[0].".";
?>

a) I like Audi, Mercedez and Opel
b) I like Mercedez, Opel and Audi
c) I like Opel, Audi and Mercedez
d) I like Opel, Mercedez and Audi
```

```
<?php
$fname = array("Peter", "Ben", "Joe");
$age = array("45", "57", "63");
$c = array_combine($age, $fname);
print_r($c);
?>

a) Array (Peter Ben Joe)

b) Array ([Peter] => 45 [Ben] => 57 [Joe] => 63)
c) Array (45 57 63)
d) Array ([45] => Peter [57] => Ben [63] => Joe)
```

#### 10. What will be the output of the following PHP code?

#### 11. What will be the output of the following PHP code?

```
<?php
$names = array("Aron", "Bob", "Jack");
echo $names[1] . " is the brother of " . $names[2] . " and " .
$names[0] . ".";
?>
```

- a) Bob is the brother of Jack and Aron
- b) Aronis the brother of Bob and Bob
- c) Bob is the brother of Aron and Jack
- d) Jack is the brother of Bob and Aron

```
<?php
$names = array("Aron", "Bob", "Jack");
echo $names[0]."is the brother of ".$names[1]." and
".$names[1].".".$brother;
?>
```

- a) Aron is the brother of Bob and Bob) \$brother
- b) Aron is the brother of Bob and Bob)
- c) \$brother
- d) Error

#### Section D: Multiple choice questions on JavaScript. Circle appropriate choice. (1.5 pts \* 12 = 18 pts)

1. What will be the output of the following JavaScript code?

```
<HTML> <body>

<script>
var x = 10;
var y = 2;
var z = x / y;
document.getElementById("demo").innerHTML = z;
</script>
</body> </HTML>

a) 0
b) 1
c) 2
d) 5
```

2. What will be the output of the following JavaScript code?

```
<HTML> <body>

  <script>
  txt1 = "Cheer";
  txt1 += "up!";
  document.getElementById("demo").innerHTML = txt1;
  </script>
  </body> </HTML>

a) Cheerup!
b) Cheer up!
c) up! Cheer
d) up!Cheer
```

3. The statement x===y refers to \_\_\_\_\_

- a) Both  ${\bf x}$  and  ${\bf y}$  are equal in value, type and reference address
- b) Both x and y are equal in value
- c) Both x and y are equal in value and type
- d) There is no such statement

4. What will be the output of the following JavaScript code?

```
function equalto()
{
    var num=10;
    if(num=="20")
        return true;
    else
        return false;
}
    console.log(equalto())

a) true
b) false
c) runtime error
d) compilation error
```

5. What will be the output of the following JavaScript code?

```
function mystery()
{
  var a=1;
  if(a!=null)
     return 1;
  else
     return 0;
  }
  console.log(mystery())

a) 1

b) 0

c) runtime error

d) compiler error
```

6. Consider the following JavaScript statements.

```
var sentence = "Life is precious!!"; // Sample text
var pattern = /\d+/g // Matches all instances of one or more digits
```

In order to check if the pattern matches with the string represented by variable sentence, the statement is

a) sentence==pattern

b) pattern.test(text)

```
c) sentence.test(pattern)
```

d) pattern.test(sentence)

#### 7. What kind of expression is "new Rectangle (5, 6)"?

```
a) Primary Expression
```

- b) Object Creation Expression
- c) Invocation Expression
- d) Constructor Calling Expression

#### 8. What will be the output of the following JavaScript code?

```
function output(option)
   return (option ? "yes" : "no");
 var ans=false;
  console.log(output(ans));
a) yes
b) no
c) Runtime error
d) Compilation error
```

9. What will be the output of the following JavaScript code?

```
function height()
      var height = 155;
      var type = (height < 180) ? "tall" : "short";</pre>
      return type;
  console.log(height())
a) 155
b) 180
```

- c) tall
- d) short

10. What will be the output of the following JavaScript code?

```
var grade='B';
  var result= "";
  switch(grade)
      case 'A':
          result+="4";
          break;
      }
      case 'B':
          result+="3";
          break;
      case 'C':
          result+="2";
          break;
      default:
      result+="1";
  console.log(result);
a) 4
b) 3
c) 2
```

11. What will be the output of the following JavaScript code?

```
var a=10;
var b=8;
var c=6;
if(a==b)
    console.log(a);
else if(a==c)
    console.log(a);
else
    console.log(c);
a) 10
b) 6
c) Error
```

d) 1

#### 12. What will be the output of the following JavaScript code?

```
var grade='A';
var result=0;
switch(grade)
    case 'A':
       result+=4;
    case 'B':
       result+=3;
    case 'C':
        result+=2;
    default:
       result+=1;
console.log(result);
```

- a) 10
- b) 27
- c) 8
- d) 0

# CSE102 – Introduction to Web Design and Programming Endterm Exam

16-Dec-2019 Total points: 100 Time allotted: 2 hr 30 mins

Section A: HTML code writing and output. For the code writing questions, kindly write the code that will execute properly in the browser. The code should include all necessary elements such as HTML, HEAD and BODY.

Some fruits:  Banana Apple Mango kiwi Some vegetables: Onion Leak Carrot Cucumber	Heading 2: Commonly available fresh vegetable and fruits
	Some fruits:  Banana Apple  Mango kiwi Some vegetables: Onion Leak Carrot

Write the HTML code that p	produces following output:	(5 pt
	Fruit juice size  Small  Medium  Large  Submit  Cancel	

e file is stored in the folder "image/elephant.jpg", write the HTML code that "An elephant at sunset" written below the figure is a figure caption.	t produ (5 pts)
Elephant at the sunset	
Elephants are mammals of the family Elephantidae and the largest existing land animals. Three species are currently recognised: the African bush elephant, the African forest elephant, and the Asian elephant.	
An elephant at sunset	
An elephant at sunset	

<pre><html> <head> <style> table, th, td {     border: lpx solid black;     border-collapse: collapse; } th, td {     padding: 5px;     text-align: left; } </style> </head>             </html></pre>	<pre>Chead&gt; <style> table, th, td {     border: 1px solid black;     border-collapse: collapse; } th, td {     padding: 5px;     text-align: left; } </style>  <body> th2&gt;Famous spiritual singers Celebrate divinity with the following singers and music albums.               &gt; (tr)             &gt; (tr)                    &gt; (tr)</body></pre>	Given the following HTML/CSS cod	de, how does the output would look like in a browser?	(5 p
<pre><head> <style> table, th, td {     border: lpx solid black;     border-collapse: collapse; } th, td {     padding: 5px;     text-align: left; } </head> <body> <head> <body> <body> <body> <body> <body> <body> <body> <body> <body>     > Cto Snatam Kaur Aur</th><th><pre>Chead> <style> table, th, td {     border: 1px solid black;     border-collapse: collapse; } th, td {     padding: 5px;     text-align: left; } </style> </head> <body> th2&gt;Famous spiritual singers Celebrate divinity with the following singers and music albums.               &gt; (tr)             &gt; (tr)                    &gt; (tr)</body></pre>	<h+ml></h+ml>			
<pre> <style> table, th, td {     border: lpx solid black;     border-collapse: collapse; } th, td {     padding: 5px;     text-align: left; } </style>                  Name     clapsan="2"&gt;Albums        &gt;Heart of the universe    &gt;Heart of the universe       &gt;Tr&gt;     &gt;Heart of the universe       &gt;Divine soul       Anand bliss      </pre>	<pre> <style> table, th, td {     border: lpx solid black;     border-collapse: collapse; } th, td {     padding: 5px;     text-align: left; } </style>      Celebrate divinity with the following singers and music albums.   &lt; Name Name &lt;</pre>			
<pre>table, th, td {   border: 1px solid black;   border-collapse: collapse; } th, td {   padding: 5px;   text-align: left; }   <body> <head> <body> <body> <body> <body> <body> <body> <body> <body> <body> </body> </body> </body> </body> </body> </body> </body> </body> </body> </head></body> </head></body> </head></body> </head></body> </head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></pre>	<pre>table, th, td {   border: 1px solid black;   border-collapse: collapse; } th, td {   padding: 5px;   text-align: left; }   <body> <head> <body> <he> &lt;</he></body></he></body></he></body></he></body></he></body></he></body></he></body></he></body></he></body></he></body></he></body></he></body></he></body></he></body></he></body></he></body></he></body></he></body></he></body></he></body></he></body></he></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></head></body></pre>			
<pre>border: lpx solid black; border-collapse: collapse; } th, td {   padding: 5px;   text-align: left; }     Famous spiritual singers Celebrate divinity with the following singers and music albums.</pre>	<pre>border: 1px solid black; border-collapse: collapse; } th, td {   padding: 5px;   text-align: left; }     Famous spiritual singers Celebrate divinity with the following singers and music albums. </pre>			
<pre>border-collapse: collapse; } th, td {   padding: 5px;   text-align: left; }   <body> <h2>Famous spiritual singers</h2> Celebrate divinity with the following singers and music albums.</body></pre>	<pre>border-collapse: collapse; } th, td {   padding: 5px;   text-align: left; }       <h2>Famous spiritual singers</h2> Celebrate divinity with the following singers and music albums.           Name         Albums         Albums</pre>		••	
<pre>} th, td {     padding: 5px;     text-align: left; }   <body> <h2>Famous spiritual singers</h2> <pre> <pre> <pre></pre></pre></pre></body></pre>	<pre>th, td {     padding: 5px;     text-align: left; } <!--/style-->    <pre>celebrate divinity with the following singers and music albums.              &gt; (hr)            &gt; (hr)             &gt; (hr)            &gt; (hr)            &lt; (hr)    </pre></pre>			
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<pre>      Peter Kater     Heart of the universe     Heart of the universe</pre>	<pre>      &gt;td&gt;Peter Kater     + td&gt;+ td&gt;+ td&gt;+ td&gt;+ td&gt;+ td&gt;+ td&gt;+</pre>		00//+h>	
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Given the following HTML/CSS code, how does the output will look like in a browser?	(5 pt
ead>	
itle>A Basic Webpage	
head>	
ody>	
ection>	
1>Big on Sports	
>Sports are fun and good for you	
> What is your favorite sport? And here is a short list:	
1>	
<pre>i&gt; Baseball  <li>i&gt; Tennis </li> <li>Soccer </li></pre>	
ol>	
section>	
body>	
html>	
II LIII 17	

ection B: Short answer questions on networking and HTML.	
What does an IP address represent? Give two examples of valid IPv4 addresses.	(3 pts
What is the purpose of Domain Name System (DNS)? Explain briefly the concept of	
What is the purpose of Domain Name System (DNS)? Explain briefly the concept of	
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What is the purpose of Domain Name System (DNS)? Explain briefly the concept of	
What is the purpose of Domain Name System (DNS)? Explain briefly the concept of	
	(3 pt:
What is the purpose of Domain Name System (DNS)? Explain briefly the concept of  What is the long form of URL? Explain the purpose of URL in brief.	(3 pts
	Domain Name Hierarchy (3 pts

hat is the difference between static and dynamic web pages? Why are dynamic web pages used? (3)  hat is the purpose of web publishing and hosting? What are the services provide by a web hosting services (3)							
nat is the purpose of web publishing and hosting? What are the services provide by a web hosting servi							
nat is the purpose of web publishing and hosting? What are the services provide by a web hosting servi							
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nat is the purpose of web publishing and hosting? What are the services provide by a web hosting servi							
	nat is the dif	ference between	static and dynar	nic web pages	? Why are dynar	nic web pages used	? (3
	nat is the pu	rpose of web pub	olishing and hosti	ng? What are	the services pro	vide by a web hostii	
	nat is the pu	rpose of web pub	olishing and hosti	ng? What are	the services pro	vide by a web hostii	
	nat is the pu	rpose of web put	olishing and hosti	ng? What are	the services pro	vide by a web hostii	
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	nat is the pu	rpose of web put	olishing and hosti	ng? What are	the services pro	vide by a web hostii	
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	nat is the pu	rpose of web pub	olishing and hosti	ng? What are	the services pro	vide by a web hostii	
	nat is the pu	rpose of web pub	olishing and hosti	ng? What are	the services prov	vide by a web hostii	
	nat is the pu	rpose of web pub	olishing and hosti	ng? What are	the services prov	vide by a web hostii	

Section C: HTML multiple choice questions. Circle the correct choice. (1 pt each. 1 * 15 -> 15 pts).	(15 pts)
1. What is the default type of 'type' attribute of <input/> element in a HTML form?	
a) Text	
b) Password	
c) Numerals	
d) Special Characters	
2. Which attribute defines the file-select field in a HTML form?	
a) file	
b) checkbox	
c) button	
d) text	
3. Which element is used to create multi-line text input in a HTML form?	
a) text	
b) textarea	
c) submit	
d) radio button	
4. Which attribute is not used for the radio type in a HTML form?	
a) name	
b) value	
c) checked	
d) selected	

10. The attribute specifies an inline style associated with an element, which determines	the
d) html	
c) article	
b) id	
a) class	
9. Which attribute specifies a unique alphanumeric identifier to be associated with a HTML element?	
d) <address></address>	
c) <a></a>	
b) <hr/>	
a) <cite></cite>	
8. Which of the following HTML tag defines the title of a work? (e.g. a book, a song, a movie, a TV show etc.)	
d) <select></select>	
c) <label></label>	
b) <fieldset></fieldset>	
a) <legend></legend>	
7. For grouping HTML Form controls we can use	
d) jQuery	
c) JavaScript	
b) HTML	
a) PHP	
6. HTML Form validation traditionally is performed by	
d) Submit button	
c) Password input	
b) Text area	
a) Text input	
5. Which of the following is not the HTML Form type for adding text?	

	a) dir
	b) style
	c) class
	d) article
11. \	Which HTML element defines preformatted text?
	a)
	b) <pre></pre>
	c) <hr/>
	d) <ins></ins>
12.\	Which element is used for creating links in a HTML page?
	a) <a></a>
	b)
	c) <li>c)</li>
	d) <ol></ol>
13. \	What is the path for an image located in same folder as the current page?
	What is the path for an image located in same folder as the current page?  a) <img src="pic.jpg"/>
	a) <img src="pic.jpg"/>
	a) <img src="pic.jpg"/> b) <img src="/pic.jpg"/>
	a) <img src="pic.jpg"/> b) <img src="/pic.jpg"/> c) <img src="images/pic.jpg"/>
	a) <img src="pic.jpg"/> b) <img src="/pic.jpg"/> c) <img src="images/pic.jpg"/>
14. \	a) <img src="pic.jpg"/> b) <img src="/pic.jpg"/> c) <img src="images/pic.jpg"/> d) <img src="/images/pic.jpg"/>
14. \	a) <img src="pic.jpg"/> b) <img src="/pic.jpg"/> c) <img src="images/pic.jpg"/> d) <img src="/images/pic.jpg"/> Which of the following can't be the value of list-style-type?
14. \	a) <img src="pic.jpg"/> b) <img src="/pic.jpg"/> c) <img src="images/pic.jpg"/> d) <img src="/images/pic.jpg"/> Which of the following can't be the value of list-style-type?  a) square
14. \	a) <img src="pic.jpg"/> b) <img src="./pic.jpg"/> c) <img src="images/pic.jpg"/> d) <img src="/images/pic.jpg"/> Which of the following can't be the value of list-style-type?  a) square b) circle
14. \	a) <img src="pic.jpg"/> b) <img src="/pic.jpg"/> c) <img src="images/pic.jpg"/> d) <img src="/images/pic.jpg"/> Which of the following can't be the value of list-style-type?  a) square b) circle c) ellipse

rendering of the affected element.

a)	link other pages within the same site
b)	link the same page with other sites
c)	link other pages with other sites
d)	does not link
Sectio	n D: CSS multiple choice questions. Circle the correct choice. (1 pt each. 1 * 15 -> 15 pts). (15 pts)
1. Wł	nich of the following CSS selector types are used to specify elements to bind CSS style rules?
a	) id
b	) class
С	) tag
d	) all of the mentioned
2. Wł	nich CSS selector is used to specify a rule to bind a particular unique element?
a	) id
b	) class
С	) tag
d	) both class and tag
3. Wł	nich of the following CSS functions defines a linear gradient as a CSS image?
a	) grayscale()
b	) gradient()
С	) image()
d	) linear-gradient()
4. Wł	nich of the following CSS property is used to give a line under the text?
a	text-decoration: underline
b	) text-decoration: overline
С	text-decoration: line-through
d	) text-decoration: none

5. For	CSS Inline style, we don't need to reapply style information throughout the document and outsic
docum	ents.
a)	True
b)	False
6. CSS	Inline style has the lowest priority.
a)	True
b)	False
7. Insid	le which of the following HTML tag we provide information about linking external CSS style sheets?
a)	<head></head>
b)	<html></html>
c)	<div></div>
d)	 body>
8. The	directive allows CSS style sheets to be grouped and joined together.
a)	<head></head>
b)	<style></td></tr><tr><td>c)</td><td><script></td></tr><tr><td>d)</td><td>@import</td></tr><tr><td>9. Whi</td><td>ch of the following measurement defines a measurement relative to a font's x-height?</td></tr><tr><td>a)</td><td>ex</td></tr><tr><td>b)</td><td>em</td></tr><tr><td>c)</td><td>pt</td></tr><tr><td>d)</td><td>рх</td></tr><tr><td>10 W/F</td><td>nich of the following measurement defines measurement of font size as a percentage?</td></tr></tbody></table></style>

	a)	%
	b)	cm
	c)	em
	d)	in
11.	Wh	ich of the following CSS property sets the font size of text?
	a)	text-size
	b)	font-size
	c)	size
	d)	text
12.	Wh	ich of the following property sets the amount of spacing between letters?
	a)	space
	b)	line-height
	c)	letter-spacing
	d)	letter-space
13.	Wh	ich of the following Color Format is a CSS's six-digit hexadecimal format is the same as color defined in
HTN	ΛL?	
	a)	6-Hex Color
	b)	3-Hex Color
	c)	RGBS
	d)	RGBa
14.	Wh	ich of the following color has this value #ff0000?
	a)	blue
	b)	green
	c)	red
	d)	yellow

- 15. Select the CSS property that sets the width of an element's bottom border?
  - a) border-width
  - b) border-bottom
  - c) border-width-down
  - d) border-bottom-width

Section E: PHP multiple choice questions. Circle the correct choice. (1.5 pt each. 1.5 \* 10 -> 15 pts). (15 pts)

1. What will be the output of the following PHP code?

```
<?php
$foo = 'Korea';
$bar = $foo;
$bar = "I live in $bar";
echo $bar;
echo $foo;
?>
```

- a) Error
- b) I live in KoreaKorea
- c) I live in Korea
- d) I live in Korea Korea
- 2. Which of the following PHP statements will output Hello World on the screen?

```
i) echo ("Hello World");
ii) print ("Hello World");
iii) printf ("Hello World");
iv) sprintf ("Hello World");
a) i and ii
b) i, ii and iii
c) i, ii, iii and iv
d) i, ii and iv
```

```
<?php
$color = "violet";</pre>
```

```
$var = $color[3];
echo "$var";
?>
a) o
b) Error
c) $var
```

d) 1

3. What will be the output of the following PHP code?

```
<?php
$total = "35 birds";
$more = 10;
$total = $total + $more;
echo "$total";
?>

a) Error
b) 45 birds
c) 45
d) 35 birds
```

4. What will be the output of the following PHP code?

```
<?php
$a = "stony";
$a .= "brook";
echo "$a";
?>
```

- a) stony
- b) brook
- c) error
- d) stonybrook
- 6. Which of the conditional statements is/are supported by PHP?
  - i. if statements
  - ii. if-else statements
  - iii. if-elseif statements
  - iv. switch statements
    - a) Only i
    - b) i, ii and iv
    - c) ii, iii and iv
    - d) i, ii, iii and iv
- 7. What will be the output of the following PHP code?

```
<?php
$team = "arsenal";
switch ($team) {
  case "manu":
      echo "I love manu";
  case "arsenal":
      echo "I love arsenal";
  case "manc":
      echo "I love manc"; }
?>
```

- a) I love arsenal
- b) Error
- c) I love arsenall love manc
- d) I love arsenall love manci love manu
- 8. What will be the output of the following PHP code?

- a) EastWest
- b) EastSouthNorth
- c) SouthNorthEast
- d) West
- 9. What will be the value of \$a and \$b after the function call in the following PHP code?

```
<?php
function doSomething( &$arg ) {
    $return = $arg;
    $arg += 1;
    return $return;
}
$a = 3;
$b = doSomething( $a );
echo $a, $b;
?>
```

- a) 34
- b) 43
- c) 33
- d) 44
- 10. What will be the output of the following PHP code?

```
<?php
function calc($price, $tax="")
{
    $total = $price + ($price * $tax);
    echo "$total";
}
calc(42);
?>
```

- a) Error
- b) 0
- c) 42

Section F: JavaScript and regular expression multiple choice questions. Circle the correct choice. (1.5 pt each. 1.5 \* 10 -> 15 pts). (15 pts)

1. What will be the output of the following JavaScript code?

```
function output(object)
{
  var place=object ? object.place : "Italy";
  return "clean:"+ place;
}
console.log(output({place:"Korea"}));
```

- a) clean:Korea
- b) clean:Italy
- c) error
- d) undefined

2. What will be the output of the following JavaScript code?

```
<script>
function myFunction()
{
    document.getElementById("demo").innerHTML = Math.abs(-7.25);
}
</script>
```

- a) 7.25
- b) -7.25
- c) 7
- d) -7

3. What will be the output of the following JavaScript code?

```
var count = 0;
while (count < 10)
{
    console.log(count);
    count++;
}</pre>
```

a) The values of count are logged or stored in a particular location or storage

- b) The value of count from 0 to 9 is displayed in the console
- c) An error is displayed
- d) An exception is thrown
- 4. What will be the output of the following JavaScript code?

```
<script>
document.getElementById("demo").innerHTML = typeof "John"
</script>
```

- a) integer
- b) number
- c) string
- d) error

d) error

5. What will be the output of the following JavaScript code?

```
var obj=
{
    length:20,
    height:35,
}
if ('breadth' in obj === false)
{
    obj.breadth = 12;
}
console.log(obj.breadth);
a) 20
b) 12
c) undefined
```

6. What will be the output of the following JavaScript code?

```
var string1 = "123";
var intvalue = 123;
console.log( string1 + intvalue );

a) 123246
b) 246
c) 123123
```

d) Exception

Use the regular expression reference sheet table provided on the last page as a reference for solving regular expressions problems:

7. What will be the output of the following JavaScript code?

```
function myFunction() {
  var str = "100, 1000 or 10000?";
  var patt1 = /\d{3,4}/g;
  var result = str.match(patt1);
  console.log(result);
}
myFunction();

a) ["100","1000","1000"]
  c) ["100","1000","1000"]
  d) ["1000","1000","1000"]
```

8. What will be the output of the following JavaScript code?

```
function myFunction() {
  var str = "Is this all there is?";
  var patt1 = /[^ht\sis]/g;
  var result = str.match(patt1);
  console.log(result);
}
myFunction();
  a) I,s,t,h,i,s,a
  b) Is this all there is?
  c) False
```

d) I,a,I,I,e,r,e,?

9. The following is a regular expression.

'\d\d-\d\d-\d\d\\d\\d\\d\\d\\d\\d\\d\\d\'

What will the pattern match from the following text?

- a) 18-08-26-08.00.00.01
- b) 18-09-26.23:59:59.99
- c) 18-09-23 08:00:00.00
- d) 18-12-12-18:30:00.99

10. Given the following words, which words match the regular expression 'ab\*cd\*'?

- 1. abbc
- 2. bcadcbab
- 3. abcd
- 4. acdd
- 5. abcdd
  - a) 2,4,5
  - b) 1,3,5
  - c) 1,3,4,5
  - d) None of the above

### Regular Expressions Reference Sheet

Use the following table as a reference for regular expressions:

Operator	Means	Character Class	Matches
*	0 or more occurrences	[]	Indicates a generic character class
+	1 or more occurrences	\d	Any single digit (0–9)
?	0 or 1 occurrence	\D	Any single non-digit character
$\{n\}$	Exactly $n$ occurrences	\w	A single alphanumeric character (a–z, A–Z, 0–9, or an underscore)
$\{m, n\}$	At least $m$ and no more than $n$ occurrences	\W	A single non-alphanumeric character
$\{m,\ \}$	At least m occurrences	\s	Any single whitespace character (space, tab, or newline)
()	Marks a group or sub-pattern	\S	A single non-whitespace character
	Indicates alternation (OR)		