

Question Paper

Exam Date & Time: 02-Jun-2023 (02:30 PM - 05:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.TECH END SEMESTER EXAMINATIONS, JUNE 2023

DESIGN AND DEVELOPMENT OF WEB APPLICATIONS [ICT 4302]

Marks: 50

Duration: 180 mins.

Answer all the questions.

Instructions to Candidates: Answer ALL questions Missing data may be suitably assumed

- 1) Design the form shown in Figure Q.1A using HTML/CSS. (5)

A)

Figure Q.1A

- B) Identify the mistakes, if any. Rewrite the correct code and output. (3)

```
a. < li id="catalog1234">Happy Face T-shirt
b. blockquote {
padding: 1em 3em 1em 3em;;
}
c. < body>
* {color: gray; }
< /body>
```

- C) Differentiate between DIV and SPAN tags. (2)

- 2) Create a student table using PHP/MySQL having following attributes (5)

A)

- - Registration Number (Numeric length 10)
 - Name (length Maximum 20)

- CGPA (Float)

Perform the following:

- Insert 5 records into the table
- Display the students details having CGPA >7

B)

A series of numbers in which each number (Fibonacci number) is the sum of the two preceding numbers. Example: 1, 1, 2, 3, 5, 8,....

Write a JavaScript code to display fibonacci numbers up to 'N'

(3)

- C) Analyze and write the output of the following code for the input 10 and 20.

(2)

```
<script type = "text/javascript">
var firstNumber,
secondNumber, number1,  number2,  sum;
firstNumber=window.prompt( "Enter first integer", "0" );
secondNumber=window.prompt( "Enter second integer", "0" );
number1 = parseInt(firstNumber);
sum = number1 + number2;
document.writeln( "<h1>The sum is " + sum + "</h1>" );
</script>
```

- 3) Create the table, given in the Table Q.3A using HTML/CSS

(5)

A)

Table Q.3A

Day	Seminar		
	Schedule		Topic
	Begin	End	
Monday	8:00 a.m.	5:00 p.m.	Introduction to XML
			Validity: DTD and Relax NG
Tuesday	8:00 a.m.	11:00 a.m.	XPath
	11:00 a.m.	2:00 p.m.	
	2:00 p.m.	5:00 p.m.	XSL Transformations
Wednesday	8:00 a.m.	12:00 p.m.	XSL Formatting Objects

B)

Analyze and write the output of the following code.

(3)

```
<?php
$object = new User;
print_r($object); echo "<br>";
$object->name = "User1";
$object->password = "pass1";
print_r($object); echo "<br>";
$object->save_user();
class User
{
```

```

public $name, $password;
function save_user()
{
echo "Save User code goes here";
}
}
?>

```

C) Write a HTML code to display the text in the following format.

(2)

```

      Imagine That You
Wanted              To Display
  Some              Text In
      A Very Specific
                Way

```

4) Consider the Figure Q.4A, analyze and answer the following:

(5)

A)

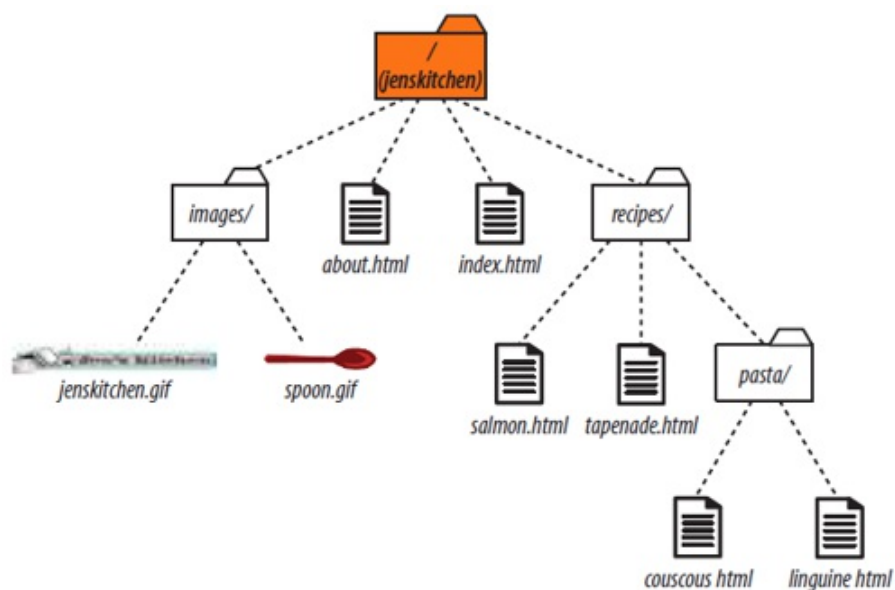


Figure Q.4A

- How to link index.html and about.html?
- Link salmon.html and index.html

- c. Link Index.html and couscous.html
- d. Link specific point in a page index.html

- B) Differentiate unordered and descriptive lists. Give an example for each. (3)
- C) Evaluate the following expressions according to precedence and associativity of the expressions. (2)
- a. $20+10*15/5$
 - b. $(10+20)*15/5$

- 5) Analyze the following code and write the output. Identify the necessary parameters for the transition function. (5)

- A)
- ```
<html>
<head><style>
div { width: 100px;
 height: 100px;
 background: #00FF;
 transition: background-color 3s step-start 0.2s;
}
div:hover { background-color: #00FF00;}
</style></head>
<body>
<div> Transition example </div>
</body>
</html>
```

- B) Identify which of the following are inline elements and what is purpose of the same. (3)
- a. Small
  - b. Strong
  - c. blockquote
  - d. h1
  - e. em

- C) Write the output of the following code snippets with proper justification. (2)
- a. `< script type="text/javascript"> x=3; y=9; document.writeln( x + y );< /script>`
  - b. `< script type="text/javascript" src="external.js" />`

-----End-----