

Question Paper

Exam Date & Time: 29-Jul-2022 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.TECH END SEMESTER MAKE-UP EXAMINATIONS, JULY 2022

DESIGN AND DEVELOPMENT OF WEB APPLICATIONS [ICT 4302]

Marks: 50

Duration: 180 mins.

A

Answer all the questions.

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

- 1) Write a complete single JavaScript program to do the following:- (5)
- A)
- a. Read two numeric values and validate if values are positive numeric or not.
 - b. Read an operator from user and validate if operator is one among +, -, *, /
 - c. make use of read values to perform arithmetic operations and display result. Make use of switch case control structure.
- B) Explain different types of PHP array along with example for each. (3)
- C) Write complete web page code to change color of all textual content of web page to blue after user clicks on a button. (2)
- 2) Write complete PHP program to store information about students in a database. Student details to be stored are regno, name and cgpa. Read all values from user and store them in database. Also, search student details after reading regno from user and if student record not found then display message "student details not present in database". (5)
- A)
- B) Write output of following error-free code: (3)
- ```
<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Arrays</h2>

<script>

var fruits = ["Banana", "Orange", "Apple"];

fruits[6] = "Lemon";

var fLen = fruits.length;

for (i = 0; i < fLen; i++) {

document.write(fruits[i]+"
");

}
```

< /script>

< /body>

< /html>

- C) Draw and explain the parts of an element box according to the CSS box model. (2)
- 3) Write a HTML code add following controls to a web page with a suitable contents:- (5)
- A)
- a. radio button
  - b. checkbox button
  - c. Drop-down menu
  - d. scrolling menu
  - e. date control
- B) Write JavaScript code to read 'n' different numeric values from user and display their average along with proper messages. (3)
- C) Write output of following HTML code: (2)
- ```
< !DOCTYPE html>

< html>

< body>

< h2>A Description List< /h2>

< dl>

< dt>Coffee< /dt>

< dd>- black hot drink< /dd>

< dt>Milk< /dt>

< dd>- white cold drink< /dd>

< /dl>

< /body>

< /html>
```
- 4) Create a web page having a text field and a button. The text field is used to read number from user. After user hits on the button, display a table below the button. The generated table must have two columns with header "Number" and "Cube". The table rows should display the cube of the numbers starting from 1 till the number entered by the user. If the number is divisible by 3, then the background color of that entire row should be in red. Background color of all other rows must be blue. (5)
- A)
- B) Write an HTML individual complete anchor tag examples for the following: (3)
- a. Linking Within Your Own Site
 - b. Linking to a lower directory (Link one directory down)
 - c. Linking to a higher directory
- C) Differentiate between Internet and web. (2)
- 5) Write a note on ID and class selectors. Also, write output of following code with proper format and (5)

- A) font colour.
- ```
< html>
< head>
< style>
p u { color:red; }
.C1 { color:green; }
.C2 { color:yellow; }
#one { color:blue; }
address { color:black; }
< /style>
< /head>
< body>
< h1 class="C2"> Heading 1 < /h1>
< p> Paragraph Selector A : < u> STRONG < /u> < /p>
< h2 class="C1"> Heading 2 < /h2>
< p id="one"> Paragraph Selector B : < strong> STRONG < /strong>< /p>
< address> Address < strong> STRONG < /strong> < /address>
< /body>
< /html>
```
- B) Explain any three PHP string functions along with example for each. (3)
- C) Explain HTML comment tag along with a suitable example. (2)

-----End-----