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University Roll No.....

Mid-Term Examination, Odd Semester 2021-22

B. Tech. (Hons.) CS, I-Year, I-Semester

BCSC0050: Internet Programming

Time: 2 Hours

Maximum Marks: 15

Section- A

Note: Attempt All Three Questions.

3 x 1 = 3 Marks

1. Imagine you are a web-developer in an organization. One of your clients wants you to change all the first headings in the existing website to be italicized, which were earlier displayed in normal formatting. What minimum changes are you supposed to make in the website? Note: Assume that there are 2000 first headings.
2. Create a webpage that has background color that has mixture of equal intensities of each of the primary colors.
3. Create a web application that displays a button showing "Display Date" on it. When clicked, it shall display the current date.

Section- B

Note: Attempt All Three Questions.

3 x 2 = 6 Marks

1. Display the following equations on a webpage in a tabular format:

Area of Circle	$A = \pi r^2$
Euclidean Distance	$d = \sqrt{[(x_2 - x_1)^2 + (y_2 - y_1)^2]}$

2. Create a webpage that asks the user to input a number and displays the table of the number in tabular format as follows:

2	*	1	=	2
2	*	2	=	4
2	*	3	=	6

3. (a) Find the output of the following php code:

```
<?php
$х = 10;
$у = 0;
while($у < 10) {
    if ($у == $х) {
        break;
    }
    echo $х. " " . $у. "<br>";
    $х--;
    $у++;
}
?>
```

(b) Fill in the blanks to complete the code so that the output should be 50.

```
<?php
$х = 15;
_____ ($у=10; $у<_____; $у++) {
    $х++;
}
echo $х;
?>
```

Section – C

Note: Attempt Any Two Questions.

2 x 3 = 6 Marks

1. A company wants the users to register for an event with the following data on its website:
 - a. Name
 - b. Email
 - c. Mobile Number
 - d. Gender

Design a webpage that displays the registration page with appropriate fields. However, the webpage shall not send the data to the server unless the following validations are checked:

- a. No field shall be left blank.
 - b. The email shall be in the correct format.
 - c. The mobile number must contain exactly 10 digits.
2. Create a website containing three webpages.
 - a. The first webpage shall display an ordered list of 5 cities in alphabetical order. The list symbols used shall be from alphabet A to E. Just below the list, a link is required (displayed as NEXT) to redirect to the second webpage.
 - b. The second webpage shall display an ordered list of next 5 cities in alphabetical order. The list symbols used shall be from alphabet F to J. Just below the list, two links are required (displayed as PREVIOUS and NEXT) to redirect to first webpage and third webpage respectively.
 - c. The third webpage shall display an ordered list of next 5 cities in alphabetical order. The list symbols used shall be from alphabet K to O. Just below the list, a link is required (displayed as PREVIOUS) to redirect to the second webpage.

3. Design a webpage using php that performs the following operations on the given String "Was it a car or a cat I saw";
- Convert all characters to lowercase.
 - Reverse the string produced.
 - Remove all spaces from the string produced.
 - Display the output string.
- Also, show the output of the webpage.