Reg. No. \_\_\_\_\_\_\_\_\_\_\_\_\_



**End Semester Examination – Nov / Dec – 2019**

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| **Code :** | **17CS2024** | **Duration :** | **3hrs** |
| **Sub. Name :** | **WEB TECHNOLOGY** | **Max. Marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Describe the various form input types and validation attributes in HTML. Design registration form to collect the details from the students for the department event registration. | CO1 | 12 |
| b. | Demonstrate the three types of list in HTML with suitable example program. | CO1 | 8 |
| **(OR)** | | | | |
| 2. | a. | Design the following table and format its contents with suitable HTML tags. | CO1 | 10 |
| b. | Discuss about the following HTML elements with proper demonstrations.  i) img ii) video iii) audio iv) any 4 semantic elements | CO1 | 10 |
|  |  |  |  |  |
| 3. | a. | Describe the different ways of including style sheet in HTML document. Assume the webpage contains two division element. Write CSS script to add the following styles to the division elements.   * set, text color as blue, border color as red, border style as dotted, font size as 24 px to the first division. * align the content of second division in four columns. | CO1 | 10 |
| b. | Create a news website with appropriate HTML5 elements and attach style details to improve the look and feel of the website using the following CSS3 properties.  i) background image ii) box iii) float  iv) margin and padding v) position. | CO2 | 10 |
| **(OR)** | | | | |
| 4. | a. | Demonstrate the usage of following CSS properties with suitable HTML and CSS code.  i) font ii) border iii) opacity iv) transition v) animation. | CO1 | 10 |
| b. | Design the following layout HTML and CSS. (Use only CSS properties such as box model, position, float, etc. to align the elements). | CO2 | 10 |
|  |  |  |  |  |
| 5. | a. | Discuss about arrays in javascript and elaborate the following methods with illustrations.  i) pop ii) push iii) slice iv) shift v) splice vi) concat. | CO2 | 10 |
| b. | Create an Employee instance using function template in JavaScript. The object must contain the following properties such as name, Emp. Id., basic pay, DA and HRA. The object must include functions to calculate the gross salary and display the salary details. | CO3 | 10 |
| **(OR)** | | | | |
| 6. | a. | Explain any 5 ways of finding HTML elements using document object in javascript. | CO2 | 10 |
| b. | Design a web page with JavaScript program to calculate and display the BMI value for the given weight and heights (input from user) and determine person’s body type based on their BMI score using the following criteria:   * Underweight: < 18 * Normal: 18 – 25 * Overweight: 25 – 30 * Obese: > 30. | CO3 | 10 |
| 7. | a. | Explain any five super global variables in PHP with sample illustrations. | CO4 | 10 |
| b. | Design a web application with the following features.   * Create a login page using HTML. * Add PHP program to read login credentials and check for authentication with user data from database. | CO5 | 10 |
| **(OR)** | | | | |
| 8. | a. | Design a HTML form to collect the required details from the user and write a PHP code to store details in a Customer table as well as display all the existing customer details. Consider the following table in database called “UserDB”.  Table Name: Customers   |  |  |  |  |  | | --- | --- | --- | --- | --- | | FirstName | LastName | Gender | Phone | Email | |  |  |  |  |  | | CO5 | 12 |
| b. | Discuss the session management in PHP with suitable program. | CO4 | 8 |
|  | | **Compulsory**: |  |  |
| 9. | a. | Explain the following directives in AngularJs with suitable example.  i) ng-app ii) ng-model iii) ng-bind iv) ng-init v) ng-controller. | CO6 | 10 |
| b. | Design a two column table consist of students name and register number by looping through the student array using ng-repeat in angularJS. | CO6 | 10 |