

3rd Semester MCA Mid-Term Exam 2023-24(Batch 2022)

**Web Application Development(MCCS-T-PC-027)**

**BRANCH(S) - Master in Computer Application**

Duration: 01:30

Full Marks: 25

**1 Answer All**

- a What is the difference between padding and margin? 1
- b To create a dropdown menu in HTML we need \_\_\_\_\_ and \_\_\_\_\_ elements of HTML form. 1
- c Write inline CSS to change the color of the text to red of <h1>Hello CSS</h1>. 1
- d \_\_\_\_\_ function of PHP is used to get the data type of a PHP variable. 1
- e What is the difference between a string declared with a single quote and a string declared with a double quote? 1
- f Write a PHP script to display the current date and time in dd/mm/yyyy hh:mm am/pm (Ex: 01/01/1999 10:10 AM) format. 1

**2 Answer All**

- a Explain the 3-tier Web Application Architecture and its components with a suitable diagram. 3
- b Write HTML code to create the following list. 3
  - Undergraduate Programs
    - 1. B.Tech CSE
    - 2. B.Tech CST
    - 3. B.Tech CEN
  - Postgraduate Programs
    - 1. M.Tech CSE
    - 2. MCA
    - 3. M.Sc.
  - Ph.D. Programs
    - 1. Computer Science & Engineering
    - 2. Electronics & Communication Engineering
- c Explain the concept of call by value and call by reference in PHP with a suitable example. 3

**3 Answer any One**

- a What is Bootstrap? Write the advantages of using Bootstrap. 5
- b Write HTML code to create a registration form containing several fields to take user inputs like - Name, Email, Gender, Data of Birth, Address, State, and Language Known. Use radio buttons for gender and ensure that the user is able to select only one value. Use the date picker to select the date of birth. For address use a multiline text box. The state should be a drop-down menu with options like - Odisha, Bihar, and Jharkhand. For the language known field allow the user to select as many languages the user knows among English, Hindi, and Odia. 5

#### **4 Answer any One**

- a Construct the following associative array (name and their respective monthly salary) and perform the following operation – 5  
("Tom"=>25000, "Jerry"=>37000, "Spike"=>32000, "Casper"=>50000, "Droopy"=>45000, "Mickey"=>42000)
- Display all the employee details in the format – "Salary of Tom is 25000"
  - Find the total amount of monthly salary to be paid to these employees
  - Sort and display the employee details in alphabetical order
  - Sort the employee based on salary and display them
  - In a tabular format display Name, Yearly Salary, Tax %, and Tax Amount. If the yearly salary of an employee exceeds 420000, then he/she has to pay 5% tax, or else the tax is 3.5%
- b Define an interface Calculator which has the basic methods add(), sub( ), mul() and div(). Define a concrete class named as DemoCalculator that implements the interface. Define the driver class, which create object reference of the interface Calculator and perform all basic operation of the calculator. 5