SVKM'S NMIMS

SCHOOL OF TECHNOLOGY MANAGEMENT& ENGINEERING

Academic Year: 2023-2024

Program: B.Tech / MBA Tech / BTech Integrated Year: II / IV Semester: IV / VIII

Stream: Computer Engineering / CSE (Cyber) / CSE (DS) / Computer Science

Subject: Web Programming Time: 3 hrs (10:00 am to 1:00 pm)

Date: 26/ 2024 No. of Pages: 4

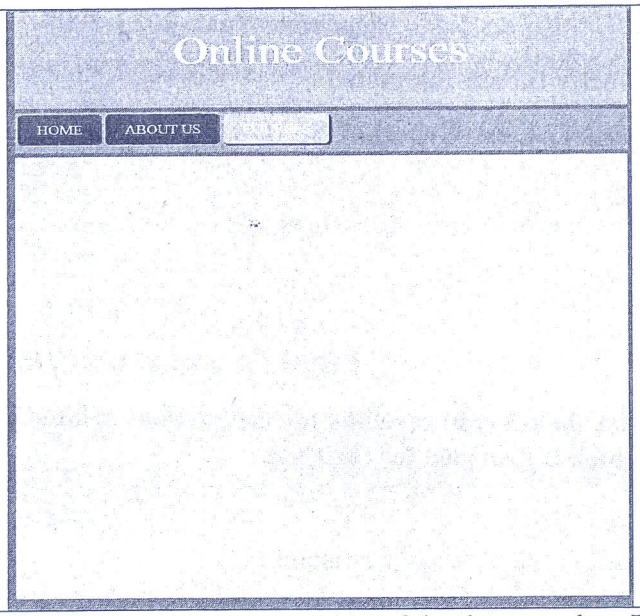
Marks: 100

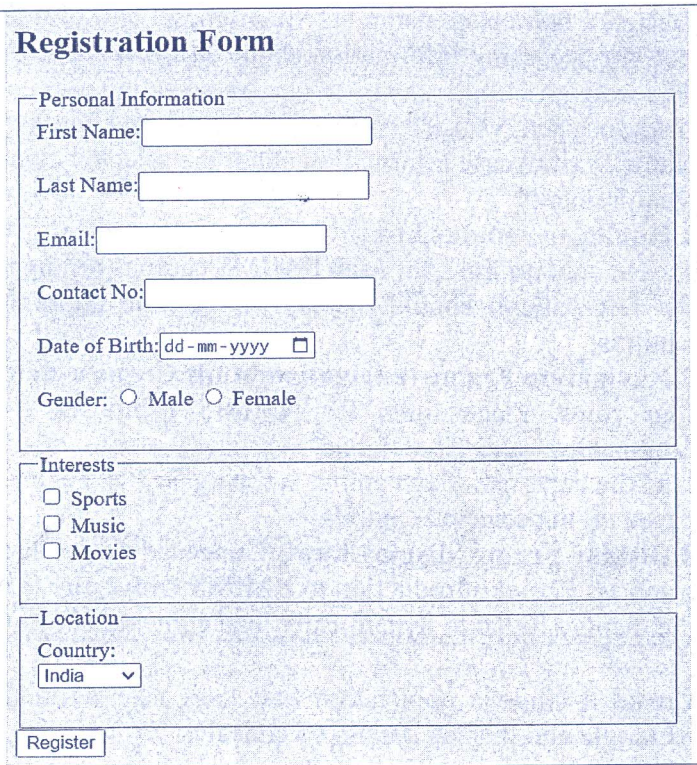
RE-EXAM (2022-23)

Instructions: Candidates should read carefully the instructions printed on the question paper and on the cover of the Answer Book, which is provided for their use.

1) Question No. 1 is compulsory.
2) Out of remaining questions, attempt any 4 questions.
3) **In all 5 questions to be attempted.**
4) All questions carry equal marks.

Q1		Answer the following questions:	[20]
CO2 SO1,5,6,7 BL-6	a.	Create a HTML web layout for the "Online Courses" website as shown below with following specification using CSS : 1. Header: • The header should have a height of 100px and a background color of cyan. • The text in the header should be white, centered, and of size 50px. • The header should have a 20px padding from top 2. Menu: • The menu should have a width of 100%, a height of 40px, and a background color of orange. • The menu items should be horizontally aligned and evenly spaced. • Each menu item should be in upper case, have font 16px and should have a padding of 10px on top and bottom and 20px on left and right. • Each menu item should have a background color of green, white text color, and a rounded border. • When hovering over a menu item, the background color should change to light green, and there should be a black color shadow effect to it. 3. Content: • The content area should have a height of 500px and a background color of pink. • The content area should have a top margin of 5px and a padding of 50px from top.	[10]

			
CO3 SO1,5,6,7 BL-6	b.	Create a Node.js file to demonstrate creation of database student DB and student table (Rno, Sname, Percentage) in MySQL. Also insert details of atleast 5 students in it and display the same.	[10]
Q2 CO2 SO1,5,6,7 BL-6	a.	Write a JavaScript Code to accept a number from the user and to reverse and display it on the browser.	[10]
CO2 SO1,5,6,7 BL-6	b.	Implement an AngularJS code to display a table that shows details like the product name, price, and quantity as shown below. The user needs to enter the quantity that he wants to buy, and on click of the Place Order button, the total amount to be paid is calculated and displayed to the user below the table. (Note: At least 5 products are required.) **Food Items** **Price** **Quantity** Pizza 100 1 Pasta 150 1 Bread 170 1 Sandwich 200 1 Ice Cream 250 1 Place Order **Total amount to be paid: 870**	[10]
Q3 CO2	a.	Write the HTML code to generate the following registration form. (P.T.O)	[10]

SO1,5,6,7 BL-6			
CO2 SO1,5,6,7 BL-6	b.	Validate the form created in Q-3a) using JavaScript for following validations. 1. First Name and Last Name should not be blank and should only contain letters (use regular expression) 2. Email id should contain '@' and '.' (use regular expression) 3. Contact number should consist of only digits and should be of length 10. (use regular expression) 4. Atleast one checkbox and a radiobutton should be selected. 5. Country should be selected and cannot be left blank.	[10]
Q4 CO2 SO1,5,6,7 BL-6	a.	Write a JavaScript Program to Print All Prime Numbers within an Interval. The interval that is the starting number and the ending number should be taken input from the user. (Eg: Print all prime numbers between 1 and 15)	[10]
CO2 SO1,5,6,7 BL-6	b.	Write AngularJS Code using two-way binding to create a registration form with user details i.e. User Name, User Age and Courses (i.e. Python, Java, and AngularJS using checkbox input type). The user fills in the details and clicks on the submit button. On clicking on the submit button the details filled by the user are displayed in tabular format.	[10]
Q5 CO2 SO1,5,6,7 BL-6	a.	Validate the form given in Q-3a) using AngularJS for following validations. 1. First Name and Last Name should not be blank and should only contain letters 2. Email id should be in corret format 3. Contact number should consist of only digits and should be of length 10. (use regular expression) 4. Atleast one checkbox and a radiobutton should be selected. 5. Country should be selected and cannot be left blank.	[10]

CO2 SO1,5,6,7 BL-6	b.	Design a homepage using HTML frameset and iframes to serve as a navigation hub for accessing information about different campuses of NMIMS University. The website should consist of one frame acting as a navigation frame containing links for each NMIMS campus (atleast 4), and another frame acting as a display frame to showcase information about the selected campus. Requirements: **1.Homepage (index.html):**Utilize a frameset with two cols. The right column should contain links for each NMIMS campus arranged vertically in a table, and the left column should display information about NMIMS and the selected campus. **2.Navigation Frame (navigation.html):**Create a table with a single column and four rows. Place links for NMIMS campuses ("Mumbai," "Chandigarh," "Bangalore," and "Hyderabad") vertically within the table cells. Each link should load the corresponding campus webpage in the iframe created on the display page based on the selected campus. **3.Display Frame (display.html):**Create a default page for the display frame that provides a brief introduction to NMIMS University. Implement an iframe within the display frame to dynamically load content based on the selected campus.	
Q6 CO3 SO1,5,6,7 BL-6	a.	Create a Node.js application that uses user defined module to find area of rectangle and display details on console.	[10]
CO2 SO1,5,6,7 BL-6	b.	Write Angular JS code to implement a user defined service and induce it as dependency into the controller.	[10]
Q7 CO2 SO1,5,6,7 BL-6		Design the following web page using HTML and CSS. The web page has a logo on the top left corner. The navigation bar on the top consists of the links Home, About, Service, Design and Contact. A search field is displayed on the top right corner. On the left side content with a rounded Join us button is displayed. On the right side a login form with email id, password field and Login button is displayed. Also a link to signup page is given if the user is an unregistered user. 	[20]