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Question Paper Code: U5801

B.E./B.Tech. DEGREE EXAMINATION, NOV 2024

Fifth Semester

Information Technology

21UIT501- INTERNET AND WEB TECHNOLOGY

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

PART A - (10 x 2 = 20 Marks)

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| 1. Compare HTML and HTML5 elements | CO1 U |
| 2. Develop a HTML5 program to display a table with relevant attributes. | CO2 App |
| 3. Analyze the impact of using inline styles versus external CSS files on maintainability, performance, and code organization in web development projects. | CO3 Ana |
| 4. List some CSS selector. | CO1 U |
| 5. Infer, how can you make use of Bootstrap's built-in icons? | CO1 U |
| 6. Create a responsive navigation menu using Bootstrap? | CO2 App |
| 7. Compare server side scripting and client side scripting. | CO1 U |
| 8. Outline on argument object in JavaScript and how to get the type of arguments passed to a function? | CO1 U |
| 9. Develop a code for connect mysql database in PHP | CO2 App |
| 10. Outline the purpose of the <i>if</i> statement in PHP? | CO1 U |

PART – B (5 x 16= 80 Marks)

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|---|---------|------|
| 11. (a) Design a web site (Home Page only) for Hospital management system with all features like patient enquiry page, doctor's availability, and number of specialist, contact details, consulting hours and medicine details using relevant HTML form tags. | CO2 App | (16) |
| Or | | |
| (b) Design a web page for the online ticket reservation systems for booking tickets using relevant HTML form tags. | CO2 App | (16) |

12. (a) Illustrate the different ways to include CSS style sheets in the web page with example. CO1 U (16)

Or

- (b) Illustrate the box model and text flow in CSS with example. CO1 U (16)

13. (a) You have been given a design mockup for a landing page. Apply Bootstrap classes and components to achieve the following requirements: CO2 App (16)

- i. Implement a full-width hero section with a background image and a centered heading and call-to-action button. (4 Marks)
- ii. Create a responsive grid layout to display product features. Each feature should consist of an icon, a title, and a description. (4 Marks)
- iii. Implement a pricing table with three pricing plans. Each plan should display the plan name, price, features, and a sign-up button. (4 Marks)
- iv. Style a contact form using Bootstrap classes, including text input fields, a textarea, and a submit button. Apply appropriate Bootstrap classes to align and style the form elements. (4 Marks)

Or

- (b) Design and implement the necessary Bootstrap components and classes to achieve the following requirements: CO2 App (16)

- i. Create a grid layout to display a collection of images. Ensure that the grid is responsive and adjusts the number of images per row based on the screen size. (6 Marks)
- ii. Implement a lightbox feature that opens the selected image in a modal window when clicked. The lightbox should display the full-size image with navigation arrows to navigate through the gallery. (4 Marks)
- iii. Apply appropriate Bootstrap classes to style the images, grid layout, and lightbox. (6 Marks)

14. (a) Develop a JavaScript for the following. Provide a text box for the user enter user name. Validate the username for the number of characters (assume some no. say 6). Provide a SUBMIT button for the validation to happen. On successful validation display a new page with an image and two text boxes for entering the width and height of the image respectively with a RESIZE button below. On clicking the Resize button validate the width and height numbers and on successful validation display the image with the requested width and height. CO2 App (16)

Or

- (b) Design a webpage with a textbox where the user can enter a four digit number and a button “validate”. Validate the entered number for the following using java script. No zero as the first digit. Entered number must be in ascending order of digits (Ex: 1234, 5678...) CO2 App (16)

15. (a) Develop a PHP program to display the employee management system using appropriate CSS selectors and HTML. Analyze the code which CSS selector and types you will be select for design CO3 Ana (16)

Or

- (b) Develop a PHP Program to display Student database with minimum details using appropriate CSS selectors and HTML. Analyze the code which CSS selector and types you will be select for design CO3 Ana (16)

