**20CB/CS/DS/IT402**

**Hall Ticket Number:**

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| **II/IV B.Tech (Regular\Supplementary) DEGREE EXAMINATION** | | | |
| **July/August, 2023** | **Common to CS,CS,DS & IT Branches** | | |
| **Fourth Semester** | **Web Technologies** | | |
| **Time:** Three Hours | | **Maximum:** 70 Marks | |
| ***Answer question 1 compulsory.*** | | | **(14X1 = 14Marks)** |
| ***Answer one question from each unit.*** | | | **(4X14=56 Marks)** |

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| 1 | a) | Write syntax of the following HTML tags: - i) anchor tag ii) img tag iii) hr tag | CO1 | L3 | 1M |
|  | b) | Define Table tag and their attributes with an example. | CO1 | L3 | 1M |
|  | c) | What are <div> and <span> tags? | CO1 | L1 | 1M |
|  | d) | Define the iframe tag with an example. | CO2 | L2 | 1M |
|  | e) | Write the difference between external and Embedded Style Sheet | CO2 | L2 | 1M |
|  | f) | List the properties of the STYLE tag | CO2 | L2 | 1M |
|  | g) | How to create a function in JavaScript? | CO3 | L3 | 1M |
|  | h) | State any three methods of Math object with an example | CO3 | L2 | 1M |
|  | i) | Write difference between XML and HTML. | CO4 | L1 | 1M |
|  | j) | What is XSLT? | CO4 | L2 | 1M |
|  | k) | Mention some document object Methods. | CO3 | L2 | 1M |
|  | l) | Mention the features of XML. | CO4 | L1 | 1M |
|  | m) | How will you handle requests in AJAX? | CO4 | L1 | 1M |
|  | n) | What do you mean by JQuery? | CO4 | L2 | 1M |
| **Unit-I** | | | | | |
| 2 | a) | Create an HTML Page for the following features: (i)Create an unordered list (ii)Create an ordered list Use various bullet styles(iii) Created nested lists Use the font tag in conjunction with lists (iv) Create definition lists. | CO1 | L2 | 7M |
|  | b) | Draw HTML code to draw your class timetable using <table> tag with colspan, rowspan and caption | CO1 | L3 | 7M |
|  |  | **(OR)** |  |  |  |
| 3 | a) | What are the different form element types in HTML 5? Give examples for any four form elements. | CO1 | L3 | 7M |
|  | b) | Explain how will you add audio and video in HTML page with examples. | CO1 | L2 | 7M |
| **Unit-II** | | | | | |
| 4 | a) | What is CSS? Explain different types of CSS with examples. | CO2 | L2 | 7M |
|  | b) | Create an infinite animation of an element moving in a square pattern. (Animation) | CO2 | L3 | 7M |
| **(OR)** | | | | | |
| 5 | a) | Explain control structures in javascript with examples Write a Javascript program to find whether the given number is Armstrong or not by accepting the input from the user | CO2 | L3 | 7M |
|  | b) | Write a script that reads two matrices from the prompt dialog, and do the matrix multiplication | CO2 | L2 | 7M |
| **Unit-III** | | | | | |
| 6 | a) | Explain Document Object Model in detail. | CO3 | L2 | 7M |
|  | b) | List some of the Node object methods. Give example | CO3 | L3 | 7M |
| **(OR)** | | | | | |
| 7 | a) | What are the key DOM Methods? explain their usage. | CO3 | L2 | 7M |
|  | b) | What do you mean by all collections in DOM? Explain with an example | CO3 | L2 | 7M |
| **Unit-IV** | | | | | |
| 8 | a) | Collect the student’s details such as register number, name, subject and marks using forms and generate a DTD for this XML document. Display the collected information in the descending order of marks. Write XML source code for the above. | CO4 | L3 | 7M |
|  | b) | What is XML Schema? Differentiate between DTD and XML Schemas with suitable examples. | CO4 | L2 | 7M |
| **(OR)** | | | | | |
| 9 | a) | Explain the XMLHttp Request of AJAX in detail. | CO4 | L2 | 7M |
|  | b) | How do you create a custom event handler in JQuery and send the data to a custom event handler? Explain. | CO4 | L2 | 7M |

