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# **Department of Computer Science & Engineering**

**QUESTION BANK FOR VI SEMESTER (Term: Mar-June 2024)**

**Web Technologies Laboratory (CSL65)**

**I.A. Marks : 50 Exam Hours: 03**

**Credits : 0:0:1 Exam Marks: 50**

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| **Q.no** | **Problem Statements** |
|  | 1. Write a function translate() that will translate a text i.e, double every consonant and place an occurrence of "o" in between. For example, translate("this is fun") should return the string "tothohisos isos fofunon". |
| 1. Using Node.js Express and Mongo, implement a program to accept USN, Name, Subject\_code, CIE marks and store the information in a database and display students whose CIE<20. |
|  | 1. Write a java script program to convert month number to month name using closures.  * If the user enters a number less than 1 or greater than 12 or a non-number, have the function write "Bad Number" in the monthName field. * If the user enters a decimal between 1 and 12 (inclusive), strip the decimal portion of the number. |
| 1. Write a node.js Express and Mongo program to accept Student\_name,USN,semester,exam\_fee from web page and delete all the students who have not paid exam fees. |
|  | Write a javascript closure to calculate net price of a product along with tax.   1. Write a javascript closure to calculate net price of a product along with tax. |
| 1. Write a node.js Express and Mongo program to create 'HR' database with the collection 'employees' having the fields like emp\_name,email,phone, hire\_date, job\_title,salary. Accept these fields information from a web page and to store it in the database and display all the employee details whose salary>50000. |
|  | 1. Write an REACT program to print Name, Address and Company of an Employee. When you Click on CHANGE button, the name and address should be changed. |
| 1. Write a Node.js program using Express framework and create an on-line training site with three pages of content: Home, Registration, Announcements & Contact. Use routing to swap between them. |
|  | 1. Write a java scriptfunction named **pluralize**that:  * takes 2 arguments, a noun and a number. * returns the number and pluralized form, like "5 cats" or "1 dog". * Make it handle a few collective nouns like "sheep" and "geese". |
| 1. Write a Node.js Express and Mongo program to accept ‘Student’ information viz. Name, USN, Dept, Grade from a web page and store the information in a database and update Student grade with the name specified by the user and display the results. |
|  | 1. Write an REACT program which accepts the Name from the form. As you type, it updates the Name in the page with an h1 tag. |
| 1. Write a Node.js program using Express framework to display different branch information offered in an Engineering College with different background color and fonts (Note: Use Routing, Min: 3 branches) |
|  | 1. Design a Student Form using HTML5 which has following fields    1. Name : Required must be characters    2. Email : Validation placeholder: please enter valid email address    3. Phone : accept numbers in the following format (080-555-5555)    4. Semester : For the range 1 to 8    5. Branch :Data list    6. Website :Required pattern of the form-http:// 2. Create an Exam Management system using Node.js Express and Mongo for creating student database and display students who have secure 'S' grade. (Use Appropriate fields) |
|  | 1. Write an npm script having a function vowelCount() that takes a string as input and counts number of occurrences of each vowels in the string. (Hint: run the program through **npm start**)   For. Eg. Input : vowelCount('Le Tour de France')  Output: a, e, i, o, and u appear, respectively, 1, 3, 0, 1, 1 times |
| 1. Using node.js Express and Mongo to implement ‘FinalYears’ database which accepts ‘USN’,’Name’ and ‘Company\_name’ (by campus selection) as fields and store it in a database. Display the list of students who are selected for 'Infosys' |
|  | 1. Write a Node.js program using Express framework and create a on-line training site with three pages of content: Home, Registration, Announcements & Contact. Use routing to swap between them. 2. Write a Node.js Express and Mongo program to accept User Name, Branch, Semester, from web page and display all the students who belongs to 6th Semester and CSE branch. |
|  | 1. Write a node.js Express program to create a custom middleware functions for    1. Logger    2. No. of time the visitor visited the website |
| 1. Write a Node.js Express and Mongo program to accept the fields ‘ID’, ‘Title’, ‘Name’, and ‘branch’ of a faculty and store it in the database. Display all the faculty who belongs "CSE" branch and Title is "PROFESSOR". |
|  | 1. Create a web page with the following characteristics using BOX Model    * h1's have 1px red solid borders, background color #D18C1D, and 10px of space between the content and the border (padding)    * List items have 15px extra space around them (margin) and background color #C0A9DB    * Paragraphs are contained in 600px by 400px boxes with 2px black dotted borders and background color #D1D631 2. Create an Attendance Management system using Nodejs Express and Mongo for creating student database and display student’s whose attendance is below 75% (Use Appropriate fields) |
|  | 1. Write a java script program to implement Stack and Queue using **modules** 2. Create an Exam Management system using Nodejs Express and Mongo for creating student database and display Not Eligible Student List based on the Marks<20. (Use Appropriate fields) |

**Marks Distribution**

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| **Conduction and Result** | **Write Up** | **Execution** | **Viva** | **Change of Program** | **Total** |
| **Part – a** | **8** | **15 Marks** | **7 Marks** | **- 5 Marks** | **50 Marks** |
| **Part – b** | **20 Marks** |