

## **Department of Computer Science & Engineering**

## QUESTION BANK FOR VI SEMESTER (Term: Mar-June 2024) Web Technologies Laboratory (CSL65)

I.A. Marks: 50
Credits: 0:0:1

Exam Hours: 03
Exam Marks: 50

Q.no	Problem Statements					
1.	<ul> <li>(a) 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".</li> <li>(b) 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&lt;20.</li> </ul>					
2.	<ul> <li>(a) Write a java script program to convert month number to month name using closures.</li> <li>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.</li> <li>If the user enters a decimal between 1 and 12 (inclusive), strip the decimal portion of the number.</li> <li>(b) 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.</li> </ul>					
3.	Write a javascript closure to calculate net price of a product along with tax.  (a) Write a javascript closure to calculate net price of a product along with tax.  (b) 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.					
4.	<ul> <li>(a) 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.</li> <li>(b) Write a Node.js program using Express framework and create an on-line training site with three pages of content: Home, Registration, Announcements &amp; Contact. Use routing to swap between them.</li> </ul>					
5.	<ul> <li>(a) Write a java script function named pluralize that:</li> <li>takes 2 arguments, a noun and a number.</li> <li>returns the number and pluralized form, like "5 cats" or "1 dog".</li> <li>Make it handle a few collective nouns like "sheep" and "geese".</li> <li>(b) 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.</li> </ul>					
6.	<ul> <li>(a) 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.</li> <li>(b) 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)</li> </ul>					

Reviewed By

HoD, Dept. of CSE

7.	(a) Design a Student Form using HTML5 which has following fields						
	a) Name : Required must be characters						
	b) Email : Validation placeholder: please enter valid email address						
	c) Phone : accept numbers in the following format (080-555-555)						
	d) Semester: For the range 1 to 8						
	e) Branch :Data list						
	f) Website :Required pattern of the form-http://						
	(b) Create an Exam Management system using Node.js Express and Mongo for creating study						
	database and display students who have secure 'S' grade. (Use Appropriate fields)						
8. (a) Write an npm script having a function vowelCount() that takes a string as input and							
	of occurrences of each vowels in the string. (Hint: run the program through <b>npm start</b> )						
	For. Eg. Input : vowelCount('Le Tour de France')						
	Output: a, e, i, o, and u appear, respectively, 1, 3, 0, 1, 1 times						
	(b) 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'						
9.	(a) 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.						
	(b) 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.						
10.	(a) Write a node.js Express program to create a custom middleware functions for						
	i. Logger						
	ii. No. of time the visitor visited the website						
	(b) 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".						
11.	(a) Create a web page with the following characteristics using BOX Model						
	<ul> <li>h1's have 1px red solid borders, background color #D18C1D, and 10px of space betw</li> </ul>						
	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						
	(b) 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)						
12.	(a) Write a java script program to implement Stack and Queue using <b>modules</b>						
	(b) 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**

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

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