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Darshan Institute of Engineering & Technology
B.Tech. | Sem-3 | Winter-2022

Course Code	:	2101CS304	**Date**	: 20-10-2022
Course Name	:	Web Technology	**Duration**	: 150 Minutes
			Total Marks	: 70

Instructions:
1. Attempt all the questions.
2. Figures to the right indicates maximum marks.
3. Make suitable assumptions wherever necessary.

Q.1	**(A)**	Explain RegExp in Javascript.	**4**
	(B)	List pop-up boxes in JavaScript with example.	**3**

<div align="center">OR</div>

What are the advantages and disadvantages of client side scripting?

	(C)	Explain the Document Object Model with example.	**7**

<div align="center">OR</div>

Write a JavaScript that handles following events.
(i). If the mouse is over heading, change font color to "red" and if the mouse goes out of the heading change it to "black"
(ii). If key pressed is 'a','e','i','o','u', the message should be displayed on pop up box that "vowel is pressed"
(iii).If "Date and Time" button is clicked it displays current date and time information

Q.2	**(A)**	Explain any four ES6 array methods.	**4**
	(B)	Write a short note on ReactJS.	**3**

<div align="center">OR</div>

Explain JSX.

	(C)	Explain components and props in ReactJS.	**7**

<div align="center">OR</div>

Explain state and lifecycle of ReactJS.

Q.3	**(A)**	Explain conditional rendering in ReactJS.	**4**
	(B)	Demonstrate getAll, getByID and delete operation by consuming API in ReactJS with following fields.	**10**

Field Name	Data Type
EmployeeID	Number
EmployeeName	String
EmployeeDepartment	String
EmployeeDesignation	String

EmployeeSalary	Number
EmployeeWorkingSince	String
EmployeePAN	String

OR

Demonstrate getAll and insert operation by consuming API in ReactJS with following fields.

Field Name	Data Type
StudentID	Number
StudentName	String
StudentAge	Number
StudentEmail	String
StudentMobile	String
StudentAddress	String
StudentParentName	String
StudentParentMobile	String

Q.4 **(A)** Write a short note on NodeJS. **4**

(B) Demonstrate creating CRUD api using NodeJS for given table. **10**

Field Name	Data Type
CountryID	Number
CountryName	String

OR

Demonstrate creating getAll and getByID api using NodeJS for given table.

Field Name	Data Type
StudentID	Number
StudentName	String
StudentAge	Number
StudentEmail	String
StudentMobile	String
StudentAddress	String
StudentParentName	String
StudentParentMobile	String
StudentParentEmail	String

Q.5 **(A)** Explain why we need ExpressJS. **4**

(B) Explain Node Package Manager (NPM). **3**

OR

Explain Event Handling in NodeJS.

(C) Describe Vue.js and Ember.js **7**

OR

Describe Backbone.js and Meteor.js

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