Hall Ticket Number:

Code No. : 15259 N

VASAVI COLLEGE OF ENGINEERING *(AUTONOMOUS)*, HYDERABAD
Accredited by NAAC with A++ Grade
B.E. (CSE & AIML) V-Semester Main Examinations, Jan./Feb.-2024
Full Stack Web Development

Time: **3 hours**   Max. Marks: **60**

*Note: Answer all questions from **Part-A** and any FIVE from **Part-B***

Part-A (10 × 2 = 20 Marks)

Q. No.	Stem of the question	M	L	CO	PO
1.	Write HTML code to create a table with the alignment as mentioned below and apply background color light blue & fore ground color red for the table. Roll Number / Name / Department 23 / ABC / CSE 54 / XYZ /	2	3	1	1,2,3
2.	List the names of any two webservers.	2	1	1	1
3.	Write JavaScript code to validate password and re-type password fields.	2	1	2	1

4.	Consider the following JavaScript function:
	 function A(arg) {
	 if (arg) console.log("true", arg === true);
	 else console.log("false", arg === false);
	 }
	 What will be the output if A([]); is called?
		2	1	2	1

5.	Write an arrow function to greet the user.	2	1	3	1
6.	What is React Native and how is it different from React?	2	1	3	1

7.	const fs = require('node:fs');
	 fs.readFile('/file.md', (err, data) => { if (err) throw err;});
	
	 Is this read operation synchronous or asynchronous?
		2	2	4	1,2,3

8.	How do you capture query parameters in Express?	2	1	4	1,2,3
9.	Give two examples of serverless computing services.	2	1	5	1
10.	Draw web services architecture.	2	1	5	1,2

The table in Q1:

Roll Number	Name	Department
23	ABC	CSE
54	XYZ	

Part-B (5 × 8 = 40 Marks)

Q. No.	Stem of the question	M	L	CO	PO
11. a)	What do you mean by MERN stack? Design a webpage that represents a claim form using HTML and CSS. The claim form should request for a 16-digit Policy Number, Provision to choose the name of the insurer through dropdown, Name of the patient, Date of admission, Diagnosis (accept multi line input), Relationship (self, spouse, child, father or mother) and Claim amount. Provide submit and Reset buttons on it. Include internal CSS to display the controls on the left side of the page, margin 30px on left, background color cyan and padding 20px on left.	4	3	1	1,2,3,5
b)	What is selector? Describe five selectors that can be applied for styling web page?	4	2	1	1,2,3,5

			M	L	CO	PO
12.	a)	Write JavaScript program to validate email id of the format 1602-YY-7YY-YYY@vce.ac.in and send an email to the above mail-id when a link with text is clicked.	4	3	2	1,2,3
	b)	Write a JavaScript program to read first name and last name from the user through a form. Generate full name in another text box in the same page dynamically immediately after the control is moved from the last name. Ensure first name and last name should accepts only alphabets and cannot be blank.	4	3	2	1,2,3,5
13.	a)	Write a React program to create a functional component to generate a list of the form shown below and invoke it from the app.js page. 　1. Coffee　　2. Tea　　3. Milk	4	3	3	1,2,3
	b)	What is the difference between state and props in React.js? State the importance of Expression in JSX.	4	2	3	1,2,3
14.	a)	What do you mean by native module? List any three native modules. Write a program using Express to serve get requests for the routes "/", "/contact-us" to generate appropriate responses to the user.	4	3	4	1,2,3
	b)	What is the role of Mongo DB in application development? Write a program to create a collection and add document to the "prime" db.	4	3	4	1,2,3
15.	a)	Differentiate between SOAP and REST. What are the advantages of serverless computing?	4	2	5	1,2
	b)	Create a REST based web service to provide two services, one to add item and another to list items in Mongo DB.	4	3	5	1,2,3,5
16.	a)	Draw and explain CSS Box model. Write a program to display text in blue color on the screen and in red color on print media.	4	3	1	1,2,3
	b)	Write JavaScript program to realize a calculator to perform addition on clicking "+" button and subtraction operation on clicking "-" button. Assume only one text box available to enter the input. Generate the result in the same text box.	4	3	2	1,2,3
17.		Answer any *two* of the following:				
	a)	What is stateless component? Explain the life cycle of components.	4	2	3	1,2,3
	b)	What is the difference between SQL and NOSQL DB? Explain with an example CRUD operations on MongoDB.	4	2	4	1,2,3
	c)	Explain any four services offered by AWS and mention the scenario where it can be applied.	4	2	5	1

M : Marks;　　L: Bloom's Taxonomy Level;　　CO; Course Outcome;　　PO: Programme Outcome

i)	Blooms Taxonomy Level – 1	20%
ii)	Blooms Taxonomy Level – 2	33%
iii)	Blooms Taxonomy Level – 3 & 4	47%

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