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1	1	In the JSON syntax, data is separated by _____.	Commas	0.5		Semicolons	Colons	Commas	Hyphens
2	1	which of the following is incorrect about JSON: 1.JSON stands for JavaScript Object Notation 2.JSON is a lightweight format for storing and transporting data 3.In JSON Curly braces hold Arrays 4.JSON is often used when data is sent from a server to a web page 5.JSON is "self-describing" and easy to understand	3only	1		2,3	3,4	3 only	5 only
3	1	How do you represent a JSON array of strings?	{ "days" : ["SUN" , "MON" , "TUE" , "WED" , "THU" , "FRI" , "SAT"] }	1		["days" : { "SUN" , "MON" , "TUE" , "WED" , "THU" , "FRI" , "SAT" }]	["days" : { SUN , MON , TUE , WED , THU , FRI , SAT }]	{ "days" : { "SUN" , "MON" , "TUE" , "WED" , "THU" , "FRI" , "SAT" } }	{ "days" : ["SUN" , "MON" , "TUE" , "WED" , "THU" , "FRI" , "SAT"] }
4	1	Which of the following code will throw an error?	JSON.parse(undefined);		LJU-2023	JSON.parse(false);	JSON.parse(null);	JSON.parse(undefined);	JSON.parse(0);
5	1	Which of the following JSON values cannot be one of the following data types?	function	0.5		a number	a string	a function	null
6	1	JavaScript has a_____ built in function for converting an object into a JSON string:	JSON.stringify()	0.5		JSON.parse()	JSON.stringify()	JSON_Parse ()	JSON_Stringify()
7	1	JavaScript has a_____ built in function for converting JSON strings into JavaScript objects	JSON.parse()	0.5		JSON.parse()	JSON.stringify()	JSON_Parse ()	JSON_Stringify()
8	1	The extension and MIME type for JSON text is	.json & application/json	0.5		.json & application/json	.js & application/json	.json & text/js	.js & text/json
9	1	What will be the output of following code var obj= { "employee" : { "name" : "John", "age" : 30, "city" : "New York" } } console.log(employee)	Error	1		{ "name" : "John", "age" : 30, "city" : "New York" }	"employee" : { "name" : "John", "age" : 30, "city" : "New York" }	Error	Undefined
10	1	What will be the output of following code var obj= { "employee" : { "name" : "John", "age" : 30, "city" : "New York" } } console.log(obj.name);	undefined	1	LJU-2023	{ "name" : "John", "age" : 30, "city" : "New York" }	undefined	Syntax error	John
11	1	const person= { name:"xyz", age:28, employee: [{ emp_name:"pqr", designation:"prof", weekly_lec:["Tuesday"] }, { emp_name:"jkl", designation:"Asst prof", weekly_lec:["Friday","Saturday"] }] } Identify the correct statement to print no. of weekly lectures of "pqr" employee.	console.log(person.employee[0].weekly_lec.length);	1	LJU-2023	console.log(person.employee[0].weekly_lec.length);	console.log(person.employee[0].weekly_lec.length());	console.log(person.employee[0].weekly_lec[0].length);	console.log(person.employee[1].weekly_lec.length);
12	1	What is the correct way to convert a JavaScript object into a JSON string?	const obj = { name: "John", age: 30 }; const jsonString = JSON.stringify(obj); console.log(jsonString);	1		const obj = { name: "John", age: 30 }; const jsonString = JSON.stringify(obj); console.log(jsonString);	const obj = { name: "John", age: 30 }; const jsonString = obj.toJSON(); console.log(jsonString);	const obj = { name: "John", age: 30 }; const jsonString = obj.toString(); console.log(jsonString);	const obj = { name: "John", age: 30 }; const jsonString = JSON.stringify(obj, null, 2); console.log(jsonStringify);
13	1	Consider the following JSON object: const jsonObject= { "name": "John", "age": 25, "city": "New York", "hobbies": ["reading", "running", "painting"] } Which of the following options correctly accesses the second hobby "running" from the above JSON object?	jsonObject.hobbies[1]	1		jsonObject.hobbies[0]	jsonObject.hobbies[1]	jsonObject.hobbies[2]	jsonObject.hobbies{"running"}
14	1	How do you represent a JSON array of objects?	{"students": [{"name":"Alvin", "age":21, "city":"Mumbai"}, {"name":"Alex", "age":24, "city":"Delhi"}]}	1		{"students": [{"name":"Alvin", "age":21, "city":"Mumbai"}, {"name":"Alex", "age":24, "city":"Delhi"}]}	{"students"= [{"name":"Alvin", "age":21, "city":"Mumbai"}, {"name":"Alex", "age":24, "city":"Delhi"}]}	{"students"= {{"name":"Alvin", "age":21, "city":"Mumbai"}, {"name":"Alex", "age":24, "city":"Delhi"}}}	{"students": [{"name":"Alvin", "age":21, "city":"Mumbai"}, {"name":"Alex", "age":24, "city":"Delhi"}]}

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15	1	Consider the following JSON object:
		const jsonObject=
		{
		"name": "John",
		"age": 25,
		"city": "New York"
		}
		Which of the following options correctly accesses the value of the "age" property from the above JSON object?
			jsonObject["age"]	1		jsonObject.set{age}	jsonObject.getValue("age")	jsonObject.get("age")	jsonObject.value("age")

16	1	Identify Output
		const user={
		"name":"XYZ",
		"course":["MATHS","COA","FSD-2"],
		"division":{
		"A1":25,
		"B1":30,
		"C1":["A","B","C"] } }
		console.log(user.name)
		console.log(user.course)
		console.log(user.division.B1)
		console.log(user.division.C1[1])
			XYZ
			["MATHS", "COA", "FSD-2"]
			30
			B
				1		XYZ
						["MATHS", "COA", "FSD-2"]
						30
						B
							XYZ
							MATHS, COA, FSD-2
							30
							C
								XYZ
								MATHS
								30
								B
									XYZ
									MATHS, COA, FSD-2
									B1
									B

17	1	Identify the output:
		var myJson = {'key':'value', 'key2':'value2'};
		for(var myKey in myJson) {
		    console.log("key:"+myKey+", value:"+myJson[myKey]);
			key:key, value:value
			key:key2, value:value2
				1		key:key, value:value
						key:key2, value:value
							key:key, value:value
							key:key2, value:value2
								key:key, value:value2
								key:key2, value:value
									key:key2, value:value
									key:key, value:value2

18	1	Which of these is an example of a proper JSON array?	{ "students": ["Sita", "Rita", "Gita"] }	0.5		{ students= ["Sita", "Rita", "Gita"] }	{ "students": ["Sita", "Rita", "Gita"] }	{ "students": [{"Sita", "Rita", "Gita"]} }	{ "students": ["Sita", "Rita", "Gita"]}
19	1	What is the value of obj in the following code? var obj = JSON.parse('{"fruit":"apple"}', function(a,b) {if(b=="apple") return "orange"; else return b;}) console.log(obj)	{ fruit: 'orange' }	1		{ fruit: 'apple' }	{ fruit: 'apple,orange' }	{ fruit: ['orange', 'apple']}	{ fruit: 'orange' }

20	1	Identify the correct output from the following code:
		myjson='{"name":"xyz","marks":16,"shopItem":["food","cloth",{"data":true}],"flag":true,"license":null, "myobj":{"name":"nested","marks":20}}';
		obj=JSON.parse(myjson);
		console.log(obj.myobj.marks);
		console.log(myjson.marks);
		console.log(obj.shopItem[2].data);
		console.log(obj.shopItem[0]);
			20
			undefined
			true
			food
				1	LJU-2024	20
						16
						 true
						undefined
							20
							undefined
							 true
							food
								20
								undefined
								undefined
								food
									undefined
									undefined
									true
									food

21	1	Write a script of JSON array containing objects and display the same in console.		2					
22	1	Write a JSON script by entering user detail of three different person having same age group in string format method. Print the following result in object form. (1) User Details (2) Name of 2nd person and his/her age.		2					
23	1	Write a JSON script to store information related to books based on their id, topic,edition and author. (Minimum details of three books having id=1,2,3)		2					
24	1	Write a function 'FirstAndLast' that takes in an array, and returns an object with: 1) the first element of the array as the object's key, and 2) the last element of the array as that key's value. (Example input: ['ABC', 'DEF', 'Employee', 'Manager'] output: ABC : 'Manager')		3					
25	1	Write a JSON script to define Name,DOB,Age and birthplace of one person. Then print his birthdate in console as well as in chrome after clicking birthdate button.		3					
26	1	Write a script to define two JSON objects named as "division1" and "division2" having an array to store 5 names of students along with their roll number and list of subjects they opted.		3					
27	1	Write a JS to store an array of objects having height and name. display name and height of person with highest height.		3					

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28	1	Write a script to define two JSON objects named as "division1" and "division2" having an array to store names of students. These name should be sorted alphabetically in the object and should be be written to the file. At last, both division objects should be visible with names sorted alphabetically in file.		5					
29	1	Write a JSON object which contains array of 3 objects. Each object contains 2 properties name and age. Now, sort an array values by age in descending order. Print name in terminal as per the sorted age.		5					
30	1	Write one JSON string with date property (yyyy-mm-dd) and print date in India standard time.		5					
31	1	Create a JSON object named Home Expenses in which you have to add monthly expenses of transport , food bill and names of different family members including mother,father,brother and sister.Print the expenses of father with his name.		3					
32	1	Write a script to define two JSON objects named as "division1" and "division2" having an array to store 5 integer numbers. Write this object in a file named XYZ.txt using file system. Define third array as result which gives output as explained below: Suppose first array contains base value and second array contains power value and then third array will give output as: a^b.For example: first array[0]=2 and second array[0]=3 then it should return 8 in third array[0] .Also append this result in XYZ.txt and as well as on console.		3					

33	1	Below JSON object a is given. Print below sentence in console from the given object.
		Hi ! We are students of LJU .
		Exam - FSD2
		const a = {
		  "A" : "LJU",
		  "B" : ["CSE", { 'M' : [{ "N" : "FSD2" } , "Exam"]}],
		  "C" : [{
		    "D" : "Hi",
		    "E" : ['are', 4, {'F' : ['semester', 'We']}]
		  }],
		  "G" : {"H" : "students", "I" : ["of","!"] },
		  "J" : [{"K" :".", "L":"-"},"FSD-2"]
		  }
				3					

34	1	Print following statement in console from given JSON objects.
		
		const a = {"Name" : "Ramesh",
		    "Subects" : ["Maths", "Scence" , "chemistry"],
		    "Grade" : {"Type" : "marks","Total" : [88,90,99,87]},
		    "Range" : {"opt" : "100", "type" : ["secure","subject","class"]},
		    "achive" : [{ "Rank" :"rank", "place":[1,2,3]},
		{"Ordinalindicator":"st"},"12"],
		    "joints" : ['outof','got','and']
		    }
		
		Output: Ramesh got 99 outof 100 marks
		    and secure 1st rank.
				3	LJU-2024				

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35	2	Which of the following is an advantage of using Node.js?	It has a non-blocking I/O model	1		It is a statically typed language	It is a compiled language	It has a large standard library	It has a non-blocking I/O model
36	2	which function is used to include modules in Node Js.	require()	0.5		include();	require();	attach();	None of the above
37	2	Which of the following shortcut command is used to kill a process in Node.js?	Ctrl + C	0.5		Ctrl + B	Ctrl + K	Ctrl + T	Ctrl + C
38	2	Which of the following is true about fs module of Node?	Both of the above	0.5		Every method in fs module have synchronous as well as asynchronous form	Asynchronous methods of fs module take last parameter as completion function callback and first parameter of the callback function as error.	Both of the above	None of the above
39	2	Which of the following statements are true?	js is both Server Side and Client Side Language.	0.5		js is Server Side Language.	js is the Client Side Language.	js is both Server Side and Client Side Language.	None of the above.

40	2	What will be output of following code?
		var t=5;
		do{ t++;
		   console.log(t);
		  }while(t<=10);
			6
			7
			8
			9
			10
			11
				1		6
						7
						8
						9
						10
						11
							5
							6
							7
							8
							9
							10
								6
								7
								8
								9
								10
									5
									6
									7
									8
									9
									10
									11

41	2	_____ is an interactive shell that processes Node.	REPL	0.5		REAL	REPL	RESP	RPEL
42	2	Underscore (_) variable in REPL session of NodeJS is used for?	It is used to get last result	1		It is used to store result	It is used to get the last command that was used	It is used to get last result	It is used to print result
43	2	Which statement is true for following code? function myFunc(arg) { console.log(`arg was => ${arg}`); setTimeout(myFunc, 1000,'funky');	arg was =>funky , will show after 1 second of program run	1	LJU-2023	arg was =>funky , will show after 1 second of program run	arg was =>funky , will show till 1000 miliseconds after the program run	arg was =>funky , will show immediately the program run	undefined
44	2	Which statement is true for following code? setInterval(() => {console.log('HELLO GEEK');}, 1000);	HELLO GEEK , will print infinite time after 1 second	1		HELLO GEEK , will print 1000 times	HELLO GEEK , will print one time after 1000 miliseconds	HELLO GEEK , will print 1000 time after 1 second	HELLO GEEK , will print infinite time after 1 second

45	2	Identify the correct code which produces following output.
		D:/ABC/DEMO
		.txt
		abc.txt
			var pm=require("path");
			path1=pm.dirname("D:/ABC/DEMO/abc.txt");
			console.log(path1);
			path2=pm.extname("D:/ABC/DEMO/abc.txt");
			console.log(path2);
			path3=pm.basename("D:/ABC/DEMO/abc.txt");
			console.log(path3);
				1		var pm=require("path");
						path1=pm.dir("D:/ABC/DEMO/abc.txt");
						console.log(path1);
						path2=pm.extension("D:/ABC/DEMO/abc.txt");
						console.log(path2);
						path3=pm.base("D:/ABC/DEMO/abc.txt");
						console.log(path3);
							var pm=require("path");
							path1=pm.dirname("D:/ABC/DEMO/abc.txt");
							console.log(path1);
							path2=pm.extname("D:/ABC/DEMO/abc.txt");
							console.log(path2);
							path3=pm.basename("D:/ABC/DEMO/abc.txt");
							console.log(path3);
								var pm=require("path");
								path1=pm.dir("D:/ABC/DEMO/abc.txt");
								console.log(path1);
								path2=pm.ext("D:/ABC/DEMO/abc.txt");
								console.log(path2);
								path3=pm.base("D:/ABC/DEMO/abc.txt");
								console.log(path3);
									var pm=require("path");
									path1=pm.directory("D:/ABC/DEMO/abc.txt");
									console.log(path1);
									path2=pm.extension("D:/ABC/DEMO/abc.txt");
									console.log(path2);
									path3=pm.file("D:/ABC/DEMO/abc.txt");
									console.log(path3);

46	2	Which of the following is used to create a new HTTP server in Node.js?	http.createServer()	1		http.createServer()	http.createServer	http.newServer()	http.newServer
47	2	In REPL mode, Identify the correct code which produces following output. 13	> var a=7 > var b=6 > a+b	0.5	LJU-2023	> var a=7 > var b=6 > a+b	> var a=7 > var b=6 > print a+b	> var a=7, b=6 > print a+b	> var a=7 b=6 > a+b

48	2	Identify the equivalent code of given code snippet which produces same Output.
		var pm=require("path");
		var path="D:/abc/def/jkl/some.txt";
		var ans=pm.basename(path);
		var sep=ans.split(".");
		console.log("Filename="+sep[0]);
		console.log("Extension="+"."+sep[1]);
			var pm=require("path");
			 var path="D:/abc/def/jkl/some.txt";
			 var ans=pm.parse(path);
			console.log("Filename=" +ans.name);
			console.log("Extension=" +ans.ext);
				1	LJU-2023	var pm=require("path");
						 var path="D:/abc/def/jkl/some.txt";
						 var ans=pm.parse(path);
						console.log("Filename=" +ans.filename);
						console.log("Extension=" +ans.ext);
							var pm=require("path");
							var path="D:/abc/def/jkl/some.txt";
							 var ans=pm.parse(path);
							console.log("Filename=" +ans.filename);
							console.log("Extension=" +ans.extension);
								var pm=require("path");
								var path="D:/abc/def/jkl/some.txt";
								var ans=pm.parse(path);
								console.log("Filename=" +ans.filename);
								console.log("Extension=" +pm.extname(path));
									var pm=require("path");
									 var path="D:/abc/def/jkl/some.txt";
									 var ans=pm.parse(path);
									console.log("Filename=" +ans.name);
									console.log("Extension=" +ans.ext);

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49	2	Which of the following code deletes only contents of a "example.txt" file and keeps file as it is, if something is already written in it. Deletion should result without any error.	var fs=require("fs"); fs.writeFile("example.txt","" , (err)=> {console.log(err); });	1	LJU-2023	var fs=require("fs"); fs.writeFile("","example.txt",(err)=> {console.log(err); });	var fs=require("fs"); fs.writeFile("example.txt","" , (err)=> {console.log(err); });	var fs=require("fs"); fs.writeFile("","example.txt",(data, err)=> { console.log(err); console.log(data); });	var fs=require("fs"); fs.writeFile("","example.txt",(data)=> { console.log(data); });
50	2	Which is the correct code for following output: UGC_31 x64 win32 C:\Users\UGC\AppData\Local\Temp	var os=require("os"); console.log(os.hostname()); console.log(os.arch()); console.log(os.platform()); console.log(os.tmpdir());	1	LJU-2023	var os=require("os"); console.log(os.host()); console.log(os.arch()); console.log(os.platform()); console.log(os.dirname());	var os=require("os"); console.log(os.host()); console.log(os.arch()); console.log(os.platform()); console.log(os.tempdir());	var os=require("os"); console.log(os.hostname()); console.log(os.arch()); console.log(os.system()); console.log(os.tempdir());	var os=require("os"); console.log(os.hostname()); console.log(os.arch()); console.log(os.platform()); console.log(os.tmpdir());
51	2	Idntify output of following statement. console.log(pm.basename("D:/hello/abc/1.doc")); Where pm is an object of path module.	1.doc	0.5		D:/hello/abc	D:/hello/abc/1.doc	1.doc	doc
52	2	Identify error/output. const fs=require("fs"); data=fs.readFile("abc.txt") console.log(data);	Syntax error	0.5		contents of abc.txt file is printed	UTF-8 values of contents of abc.txt is printed	ASCII values of contents of abc.txt is printed	Syntax error
53	2	const h=require("http"); const obj= { name:"Demo", age:33 } h.createServer((req,res)=> { res.end(_____); }).listen(3000); Fill in the blank in res.end() method, so that it would not generate an error.	Only (A),(B),(C)	1		JSON.stringify(obj)	obj.toString()	""+obj	Only (A),(B),(C)
54	2	Identify error/output. function fun(x) { console.log(x++) } setTimeout(function() { fun(1); },3000)	Prints 1 after 3 seconds of delay	1		Prints 2 after 3 seconds of delay	Prints 1 after 3 seconds of delay	Prints 1,2,3…. Infinite every 3 seconds of duration	Error, as 3000 must be as 1st argument in setTimeout() function
55	2	What will be the output of the following code ? var pm=require("path"); ext = pm.extname("D:/LJ/abc.text") if(ext == ".txt"){ console.log("Text Document"); }else { console.log("Not a text Document"); }	Not a text Document	1		Text Document	Not a text Document	Error:No such method named extname() exists	Error : No such method named require exists
56	2	What will be the output of the following code in console? var ps=require("fs"); ps.writeFileSync("Hello.txt","Hello ! How are you !") ps.readFileSync("Hello.txt")	<Buffer 48 65 6c 6c 6f 20 21 20 48 6f 77 20 61 72 65 20 79 6f 75 20 21>	1		Hello ! How are you	Error"Hello.txt" doesn't exist	null	<Buffer 48 65 6c 6c 6f 20 21 20 48 6f 77 20 61 72 65 20 79 6f 75 20 21>

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57	2	Which of the following functions is used to execute a function named fun on every 2 seconds time interval?	setInterval(fun,2000)	1		setInterval(fun,2000)	setInterval(fun,2)	setInterval(2000,fun);	setTimeout(fun,2000);
58	2	Which of the following options correctly demonstrates the usage of the Path module in Node.js to render only the filename including its extension?	path.basename("E:/abc/file.txt ")	0.5		path.fullname("E:/abc/file.txt")	path.filename("E:/abc/file.txt ")	path.filename("E:/abc/file.txt ")	path.basename("E:/abc/file.txt ")
59	2	Which of the following options demonstrates the correct usage of the fs.writeFileSync method in Node.js to write data to a file synchronously?	fs.writeFileSync("data.txt", "Hello, World!");	0.5		fs.writeFileSync("data.txt", "Hello, World!");	fs.writeFileSync("data.txt", { message: "Hello, World!" });	fs.writeFileSync({ path: "data.txt" }, "Hello, World!");	fs.writeFileSync({ path: "data.txt" }, { message: "Hello, World!" });
60	2	What does REPL stand for?	read, eval, print, loop	0.5		run, examine, put, loop	read, eval, print, loop	run, edit, print, loop	read, execute, print, loop
61	2	Which method is used to delete a file using the 'fs' module?	fs.unlink()	0.5		fs.removeFile()	fs.unlink()	fs.delete()	fs.removeFile()
62	2	How can you get the free memory of system using the 'os' module?	os.freemem()	0.5		os.home()	os.totalMemory()	os.freemem()	os.totalmem()
63	2	Which of the following options demonstrates the correct usage of the fs.readFile method in Node.js to read a file asynchronously?	fs.readFile('file.txt', 'utf-8', (err, data) => { console.log(data) });	1		fs.readFile('file.txt', (data) => { console.log(file); });	fs.readFile('file.txt', 'utf-8', (err, data) => { console.log(data) });	fs.readFile('file.txt', 'utf-8'); console.log(read);	fs.readFile('file.txt', 'this',{ console.log(file.txt[data]) });
64	2	What does the code shown below do? const fs = require('fs'); const os = require('os'); const system = os.platform(); fs.appendFile('hello.txt', `Hello ${system}`, (err) => { if (err) throw err; console.log('The data was appended to file!'); });	creates a text file hello.txt and appends Hello win32	1		creates a text file hello.txt and appends Hello win32	creates an image file	file not create and shows the error	creates a file named data and append numbers
65	2	What will be the output of command in node as: > 5 === '5'	false	0.5		0	1	TRUE	FALSE
66	2	Identify the output of last statement: >node > x + y 30 > var sum = _	undefined	1		30	undefined	0	Error
67	2	Which of the following give available physical memory in MB?	console.log(`${os.freemem()/1024/1024}`);	1		console.log(`${os.freemem()/1024/1024/1024}`);	console.log(`${os.freemem()/1024/1042}`);	console.log(`${os.freemem()/1024/1024}`);	console.log(`${os.freemem()/1024/1204/1204}`);
68	2	Which command is used to install nodemon?	npm install -g nodemon	1		node -g install nodemon	node install -g nodemon	npm node install -g nodemon	npm install -g nodemon

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4

69	2	What will be the output of the following code?
		    var u=require("url");
		    var ps=require("fs");
		    var adr1=" http://localhost:8080/default.html?year=2025&month=feb";
		    var q1=u.parse(adr1,true);
		    var qdata=q1.query;
		    ps.writeFile("fsd2.txt",qdata,(err)=>
		    { console.log("completed"); });
			It will generate an error as data must be type of string	1		fsd2.txt file will be created and in console "completed" messaged will be displayed.	It will generate an error as data must be type of string	fsd2.txt file will not be created and in console "completed" messaged will be displayed	fsd2.txt file will not be created and in console "completed" messaged will not be displayed.

70	2	What will be the output of following code? In "Hello.txt" file "hello students" is written.
		    var ps=require("fs");
		    var data=ps.readFileSync("Hello.txt");
		    console.log(data);
		    ps.readFile("Hello.txt",function(err,data){
		    if(err){return console.error(err); }
		     console.log(data.toString());});
		    console.log("Program ended");
			Buffer Data
			Program ended
			hello students
				1		Buffer Data
						Program ended
						hello students
							Buffer Data
							hello students
							Program ended
								hello students
								Buffer Data
								Program ended
									hello students
									Program ended
									hello students

71	2	How do we get the filename portion of a path to the file in Node.js ?	path.basename()	1		path.ext()	path.basename()	path.dirname()	path.extname()

72	2	What will be the output of the following code?
		var ps=require("fs");
		ps.writeFileSync("source.txt","Hello");
		ps.writeFileSync("source1.txt","World");
		data=ps.readFileSync("source.txt","utf-8");
		data2=JSON.stringify(data);
		ps.appendFileSync("source1.txt",data2);
			World"Hello"	1		Hello World	Hello	World	World"Hello"

73	2	var u=require("url");
		var addr="http://localhost:8080/test.htm?name=lju&city=ahmedabad ";
		var q1=u.parse(addr);
		console.log(q1.search);
		console.log(q1.query);
		console.log(q1.query.city);
		console.log(q1.host)
		console.log(q1.hostname)
			?name=lju&city=ahmedabad
			name=lju&city=ahmedabad
			undefined
			localhost:8080
			localhost
				1	LJU-2024	?name=lju&city=ahmedabad
						name=lju&city=ahmedabad
						undefined
						localhost:8080
						localhost
							name=lju&city=ahmedabad
							name=lju&city=ahmedabad
							undefined
							localhost
							localhost:8080
								name=lju&city=ahmedabad
								?name=lju&city=ahmedabad
								ahmedabad
								localhost
								localhost:8080
									?name=lju&city=ahmedabad
									name=lju&city=ahmedabad
									Ahmedabad
									localhost
									 localhost:8080

74	2	What will be the output of below repl code. (Consider output only after completion of the loop also ignore output undefined).
		a=5;
		b=_*4;
		while(b<30){
		b+=2;
		console.log(b+_);
		}
			42
			44
			46
			48
			50
				1	LJU-2024	42
						44
						46
						48
						50
							41
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								30
									22
									24
									26
									28
									30

75	2	Write a Node.Js program to sort an interger array, where all element are available in a file separated by white space. Print sorted array elements on node.js server.		3					
76	2	Write Node.Js code that display "Hello" with incresing font-size in interval of 50 miliseconds in blue color. When font-size reaches to 50 pixel it should stop.		4					
77	2	Write node.js script to copy content of one file to the other file. data should be fetched from source.txt and insert to destination.txt		2					

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
78	2	Write node.js script to print "Welcome Admin" on home page of server. If user request for second page it display "This is second page" in italic font-style and if any other request is requested it shows "Page not found" message.		4					
79	2	Write a script to display sum of two numbers which are passed as an argument in function named Total. the sum should display in any html element. Use callback as third argument in Total function.		3					
80	2	Write a script to define two JSON objects named as "division1" and "division2" having an array to store names of students. These names should be sorted alphabetically in the object and should be written to the file. At last, both division objects should be visible with names sorted alphabetically in file.		2					
81	2	Write a node.js script to write contents to the file in original manner. Delete file after finishing writing.		3					
82	2	Write a program to demonstrate various methods of path module in Node.js.		2					
83	2	Write a node.js script to jump on a specific code by specifying path on address bar of browser.		2					
84	2	Write a program to demonstrate various methods of os module in Node.js.		2					
85	2	Write a node.js script to print 3 different JSON objects by specifying corresponding object name on address bar.		4	LJU-2023				
86	2	Write a node js script to write the text "You are creating a file" to help.txt file. After that append the text "you are appending data" to same help.txt file. After that read the file and print file contents on console. After finishing read operation , print the line "Thanks for using my program" on console. write ,append,read sequence must be maintain. all read ,write and append operations are asynchronous.		4	LJU-2023				
87	2	Write a node.js script to print 1st 10 prime numbers on browser in table of 10 rows. Odd no. of rows should render in blue color and even no. of rows should render in red color.		5					
88	2	Write a nodeJS script to print "My PC is on fire" on server at port no 5555 if having more than 4gb physical available memory otherwise,"I need more more memory" should get displayed.		4					
89	2	Write a node.js script to write the text "This is data" to new.txt file. After that append the text "That is data" to same new.txt file. After that read the file & print the file content on console. After finishing read operation print the line "Thank you for using program". Write, append & read sequence must be maintained & all operations are asynchronous.		5					

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
90	2	Write a Node.Js program for following action 1.Write a file having five random elements separated by white space in .txt file. 2.append sorted array of these 5 elements in same file along with message : "Sorted array:" in new line. 3.Find maximum number from that and append with message "maximum number=" in same file.		5					
91	2	Create HTTP webpages where Admin page display "Sufficient Memory:" in bold blue color with font size of 24px along with available memory in GB with font size 32px and red color if available physical memory of the system is greater than 1 GB. Else it shows "Not Sufficient Memory" in simple text. For any other page requested then shows "You are not admin" message.		5					
92	2	Write a function 'ArrayToObject' which takes in an array of arrays, and returns an object with each pair of elements in the array as a key-value pair and store the result in one arraytoobject.txt file. Input=[['Country', 'India'], ['State', 'Gujarat'], ['City', 'Ahmedabad']] Output= { Country : ' India ', State : ' Gujarat ', City : 'Ahmedabad' }		5					
93	2	Write a Node.js program to CRUD operation of file management. 1)Create folder named "Hello". 2) Create file in it named abc.txt and enter data in to it. 3) Add more data at last in file. 4) Read data without getting buffer data at first. 5) rename file 6) Delete both file and folder.		5					
94	2	Write node.js script to print "Welcome to Home Page" with two links containing two pages named as "About Us" and "Contact Us" on home page of server. If user request for About Us page it should display "Welcome to LJ University" in bold font-style with blue color and if user request for Contact Us page it should display "Email:abc@ljinstitutes.edu.in" in italic font-style with red color if any other request is requested it shows "Page not found" message in plaintext.		3					

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
95	3	_____ is there as an argument in module wrapper function in node.js to print present existing directory name of a source.js file.	__dirname	0.5		directory	__directory	--dirname	__dirname
96	3	_____ function of chalk module is used to give red background to console text.	bgRed()	0.5		red()	bgRed()	bgred()	backgroundRed()

97	3	Identify the output:
		var events = require('events');
		var eventEmitter = new events.EventEmitter();
		var myEventHandler = function (msg) {
		  console.log('I hear a scream!');
		}
		eventEmitter.on('scream', myEventHandler);
		eventEmitter.emit('scream');
			I hear a scream!	1		I hear a scream!!!	I hear a scream!	I didn't hear a scream!	I hear a scream!I hear a scream!

98	3	Identify the output:
		var http = require('http');
		http.createServer(function (req, res) {
		  res.writeHead(200, {'Content-Type': 'text/plain'});
		  res.write('Hello World!');
		  res.end();
		 }).listen(3120);
			Hello World!	1		Hello World!	will print Hello World! in bold	Hello World!	<B>Hello World!</B>

99	3	Identify the output:
		var u=require("url");
		var addr="http://localhost:8080/default.htm?year=2017&month=february";
		var q=u.parse(addr,true);
		console.log(q.pathname);
			/default.htm	0.5		http://localhost:8080/default.htm	/default.htm	/default.htm?year=2017&month=february	undefined

100	3	Identify the correct validator module to validate correct email address.	isEmail()	0.5		isEmail()	isemail()	isMail()	ismail()
101	3	Which method is used to bind connection event with its handler?	on()	0.5		emit()	on()	event()	listeners()

102	3	Which of the following code is correct to export own module to other .js file?	const add=(a,b)=>
			{
			 return(a+b);
			}
			const div=(a,b)=>
			{
			 return(a/b);
			}
			module.exports.a=add;
			module.exports.d=div;
				1		const add=(a,b)=>
						{
						 return(a+b);
						}
						const div=(a,b)=>
						{
						 return(a/b);
						}
						module.exports.a=add;
						module.exports.d=div;
							const add=(a,b)=>
							{
							 return(a+b);
							}
							const div=(a,b)=>
							{
							 return(a/b);
							}
							module.exports=add;
							module.exports=div;
								const add=(a,b)=>
								{
								 return(a+b);
								}
								const div=(a,b)=>
								{
								 return(a/b);
								}
								module.exports=[add,div];
									const add=(a,b)=>
									{
									 return(a+b);
									}
									const div=(a,b)=>
									{
									 return(a/b);
									}
									module.export.a=add;
									module.export.d=div;

103	3	Which keyword is used to make properties and methods available outside the module file?	exports	0.5	LJU-2023	import	module	exports	require
104	3	Which of the following NodeJS module splits up a web address into readable parts?	url module	0.5		Path module	url module	OS module	HTTP module
105	3	Which NodeJS object specifies the name of the directory which contains the code?	__dirname	0.5		Buffer	__filename	__dirname	None of above
106	3	What function is used to fire an event?	emit()	0.5		fire()	calc()	listner()	emit()
107	3	How to make node modules available externally?	module.exports	0.5		module.spread	module.exports	module.expose	module.divide
108	3	Which module variable holds the resolved absolute path of the current module file?	__filename	0.5		__filename	__pathname	__location	__flder

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
109	3	What are the arguments passed to the module wrapper function?	var fs=require("fs"); fs.writeFile("example.txt","" , (err)=> {console.log(err); });	1	LJU-2023	exports, process, require, module, __filename, __dirname	exports, require, module, __filename, __dirname	exports, __filename, __dirname	exports, module, __filename, __dirname
110	3	What can you export with module.exports?	var os=require("os"); console.log(os.hostname()); console.log(os.arch()); console.log(os.platform()); console.log(os.tmpdir());	0.5		only objects	only variables and arrays	only functions	functions, objects, arrays, or anything you assign to the module
111	3	Which statement about event emitters is false?	Event names must be camelCase strings.	1		The emit method allows a arbitrary set of arguments to be passed to the listener functions.	Event names must be camelCase strings.	When an event emitter object emits an event, all of the functions attached to that specific event are called synchronously.	Any values returned by the listeners for an emitted events are ignored.
112	3	What will this code log to the console? // File: student.js exports.name = "ABC"; // File: index.js const s = require('./student.js'); console.log(s);	{ name: 'ABC' }	0.5	{ name: 'ABC' }	{'ABC'}	{ }	ABC
113	3	Which statement will print "Welcome" in Red color, Underlined and with white background using chalk module in console.	console.log(ch.red.underline.bgWhite("Welcome"));	1	console.log(ch.red.underline.bgWhite("Welcome"));	console.log(ch,red,underline,bgwhite("Welcome"));	console.log(red.underline.bgWhite("Welcome"));	console.log(ch.Red.UnderLine.bgwhite(Welcome));
114	3	What will be the exact output of following code var u=require("url"); var addr="http://localhost:8080/sdg.htm?year=2023&month=december"; var q1=u.parse(addr,true); console.log(q1.search);	?year=2023&month=december	1	/sdg.htm?year=2023&month=december',	year=2023&month=december	?year=2023&month=december	{ year: '2023', month: 'december' }
115	3	Which of the following class is used to create and consume custom events in Node.js?	EventEmitter	0.5	Events	NodeEvent	Emit	EventEmitter
116	3	Which of the following consider as NodeJS global objects?	__filename	0.5	__filename	__dir	__fileName	__directory
117	3	Something that happened in our application that we can respond too.	events	0.5	events	callback	methods	procedures
118	3	Identify the correct code to print output true in red color with bold & italic effect.	import ch from "chalk"; import v from "validator"; console.log(ch.red.bold.italic(v.isEmail("hello@gmail.com")));	1	LJU-2024	import ch from "chalk"; import v from 'validator'; console.log(ch.red.bold.italic(v.isemail("hello@gmail.com")));	import ch from "chalk"; import v from 'validator'; console.log(v.isEmail(ch.bgReg.bold.italic("hello@gmail.com")));	import ch from "chalk"; import v from 'validator'; console.log(ch.red.bold.italic(v.isEmail("hello@gmail.com")));	import ch from "chalk"; import v from 'validator'; console.log(ch.bgRed.bold.italic(v.isemail("hello@gmail.com")));
119	3	Which method of a class is called to initialize an object of that class?	constructor()	1	new()	class()	constructor()	init()
120	3	Identify the output: var u=require("url"); var addr="http://localhost:8080/xyz.html?name=karan&age=21"; var q=u.parse(addr,false); query=q.query console.log(query.name);	undefined	1	LJU-2023	karan	null	undefined	false
121	3	Identify correct command to install chalk module.	npm install chalk	0.5	node install chalk	node i chalk	node install –g chalk	npm install chalk
122	3	**Identify error/output** <u>one.js</u> const c="ABC"; const add=(a,b)=> { return a+b; } const sub=(a,b)=> { return a-b; } module.exports={c,sub,add}; <u>useOne.js</u> const obj=require("./one.js") console.log(obj.add(34,3)+ ","+ obj.sub(34,3) +","+obj.c);	37,31,ABC	0.5	Error, as all functions and constant must be fetched separate, not in object	Error, as sequence must match to export and require statements	37,31,ABC	34,34,ABC

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4

123	3	**Identify error/output.**
		const h=require("events");
		const ee=new h.EventEmitter();
		const listener=()=>
		{
		   console.log("Thanks")
		}
		const listener2=()=>
		{
		   console.log("Bye")
		}
		ee.on("hii",listener);
		ee.on("hii",listener2);
		console.log(ee.listenerCount("hii"));
			2	1		1	2	Thanks
								Bye
									Thanks
									Bye
									2

124	3	Which Chalk method should be used to print the text "Hello" in bold green color?	chalk.bold.green("Hello")	1		chalk.green("Hello")	chalk.bold.green("Hello")	chalk.boldGreen("Hello")	chalk.boldGreen("Hello")

125	3	Identify Output:
		   var u=require("url");
		   var addr="http://localhost:8080/simple.html?day=monday&week=3";
		   var q=u.parse(addr,true);
		   console.log(q.search);
			?day=monday&week=3	1		?day=monday&week=3	simple.html?day=monday&week=3	simple.html	TRUE

126	3	How can you check the number of listeners for a specific event in Node.js?	listenerCount()	1		getListenersCount()	countListener()	CountListen()	listenerCount()

127	3	What will be the output of following?
		   import ch from "chalk";
		   console.log(ch.blue.underline.bgYellow("Hello"));
			Hello will be displayed in yellow color with underline and blue background color	1		Hello will be displayed in yellow color with underline and blue background color	"Hello" will be displayed in bold blue color with underline and yellow background color	"Hello" will be displayed in bold yellow color without underline and blue background color	"Hello" will be displayed in blue color with underline and yellow background color

128	3	Identify output:
		   import ch from "chalk";
		   console.log(ch.bgRed("Thanks")+ch.red("hii"));
			red background color to the text "Thanks"and red text color to the text "hii"	1		red background color to the text "Thanks"	red color to the text "hii".	red background color to the text "Thanks"and red text color to the text "hii"	red background color to the text "hii" and red text color to the text "Thanks"

129	3	What will be the output of following code?
		const EventEmitter = require('events');
		var eventEmitter = new EventEmitter();
		var fun1 = (msg) => { console.log("Message from fun1: " + msg); };
		var fun2 = (msg) => { console.log("Message from fun2: " + msg); };
		eventEmitter.on('myEvent', fun1);
		eventEmitter.on('myEvent', fun2);
		eventEmitter.removeListener('myEvent', fun2);
		eventEmitter.emit('myEvent', "LJU");
		eventEmitter.removeAllListeners('myEvent');
			Message from fun1: LJU	2	LJU-2024	Message from fun1: LJU	Message from fun2: LJU	Message from fun1: LJU
								Message from fun2: LJU
									Generates an Error

130	3	Write a node.js script to create my own module to calculate reverse of a given number. That module should be use to compute all numbers between 1 to 100 in which square of reverse & reverse of sqaure is same. This has call of reverse twice so call it from module. Also keep a function to compute average of any number of elements.		5					
131	3	Write a node.js script to print query string of URL on console as well as on file using ES6 Callback.		5					
132	3	Write a node.js script to load a simple.html file on nodejs web server & prints its contents as an html content.		5					
133	3	Write a node.js script to find all prime no.s between 1-50 using external module having a function checkPrime(). This function returns Boolean value on the basis of a no. is prime or not prime. Write all necessary .js files.		4					
134	3	Write a node.js script using event handling to consider an errorneous triangle to find area. Take fix values of all three sides. (1) If any of the side is negative, then print the message "Sides must be positive" using event handler. (2) If perimeter of triangle is negative then print the message "Perimeter must be positive" using event handler. (3) Both above messages must be printed in sequence.		5	LJU-2023				
135	3	Write a node.js script to create two listeners for a common event call their respective callbacks. Print number of events associated with an emitter. Remove one of the listeners & call remaining listners again. Print number of remaining listners also.		5					

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
136	3	Write a Node.js script to create a class student by assigning name & result in form of members. Create one member function named as topper of X which returns topper student object. Details of this topper student should be printed on file as well as on console.		5					
137	3	Write a Node.js script to create a class person by assigning name & age in form of members. Create one member function named as elder of X which returns elder person object. Details of this elder person should be printed on file as well as on console.		5					
138	3	Write a node.js script to create a class time & assign members hour, minute & second. Create two objects of time class & add both the time objects so that it should return is third time object. Third time object should have hour, minute & second such that after addition if second exceeds 60 then minute value should be incremented. If minute exceeds 60 then hour value should be incremented.		5					
139	3	Explain node js own module with suitable example. Write necessary js file.		4					
140	3	Explain the purpose of module.exports.		3					
141	3	What do you understand by an Event Emitter in Node.js?		2					
142	3	Write a node.js script to create calculator using external module having a function add(), sub(), mul(), div(). This function returns result of calculation. Write all necessary .js files.		4					
143	3	Explain URL module with appropriate example.		5					
144	3	What do you mean by QueryString?		2					
145	3	Create an event emitter instance and register a couple of callbacks.		3					
146	3	Explain node js events with appropriate example with all event methods.		5					
147	3	Write a node js script to demonstrate Chalk module.		3					
148	3	Explain validator in NPMjs.		2					
149	3	How JSON processing is done in node js? Explain with suitable example.		5					

FSD-2 Practice Book_2025

Note: The Practice Book is for reference only, LJU Test paper may not be compulsory set from this

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
150	3	Write a nodeJS script to fire an event named calculate which calculates the total marks of 5 subjects about of 25 marks and displays the total marks on console as an output.The calculate event fires another event name percentage which takes total marks as argument and percentage should get displayed in console.		5					
151	3	Write node.js script to create a file named "new.txt". Now, check if available memory of the system is greater than 1 GB then print message "Sufficient Memory"in the file, else print message "Low Memory" in file.		5					
152	3	Write a function that takes an array of numbers as input and returns the sum of all the numbers in the array after 3 seconds.		2					
153	3	Write a node.js script using Event handling to perform following tasks in sequence: a) Create file in it named abc.txt and enter data into it. b) Append data to that file abc.txt and print message "Data Appended Successfully". c) Read the content of the file abc.txt and print the content on http web server. d) Do all the operations of File using asynchronous file system module. And Lastly print the message "All operations performed successfully" on console.		4					
154	3	Write node js script to fetch values from url given below and display output as asked. "https://www.google.com/exam.txt?c1=Hello&c2=FSD2+T1+Test&c3=Welcome+to+LJU#AllThe Best" 1) Data must be written as below in file named "exam.txt". File name must be fetched from the url given above. **Output:** Hello! Welcome to LJU FSD2 T1 Test #AllTheBest 2) Read content from file "exam.txt" and send response to server and display data in "/" page in same format as above but in H1 tag and in red color. 3) If any other page is requested it shows "Page not found" message in plain text.		5					
155	3	Write a node.js script to perform the tasks using own module. 1.It has functions like c_area(),c_perimeter(),s_area() and s_perimeter() to calculate the area of circle, perimeter of circle, area of square and perimeter of square respectively. 2.Write all necessary .js files and display all calculated values in console. (area of circle = pi*r*r and perimeter=2*pi*r)(area of square = side * side and perimeter = 4*side)		4	LJU-2024				
156	3	Create HTTP webpage on which Home page display "Welcome to Log in page" in blue color and font size must be 32px, Login page shows one HTML file from static URL having Form with detail for Username, Password, submit and reset button, Gallery page reflect one Image "hello.jpg" and any other page shows "Page Not found". Write all necessary files to perform task. (Image already exist in same folder)		5					

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
157	4	Which of the following are the core features of the Express framework?	All of the above.	1		It allows us to set up middleware to respond to HTTP Requests.	It defines a routing table that can work as per HTTP Method and URL.	It is used to render the HTML pages dynamically.	All of the above.
158	4	Where are the captured values populated regarding the route parameters?	req.params	1	LJU-2024	req.data	app.locals	req.params	All of the above
159	4	Which of the following function arguments are available to Express.js Route handlers?	All of the above	1		req - the request object	res - the response object	next	All of the above
160	4	Which of the following is a middleware in Express.js?	function(req,res,next){ }	1		function(req){ }	method(req){ }	function(req,res,next){ }	method(req,res,next){ }
161	4	Which of the following is the correct syntax to use Express.js in Node?	var app = require('express');	1		var = require('express');	var_require('express');	var app = require('express');	None of the above.
162	4	Which of the following is a middleware that parses cookies attached to the client request object?	cookie-parser	1		cookie	cookies	cookie-parser	None of the above
163	4	Which of the following function is used to specify what to do when a get request at the given route is called?	app.get(route, callback)	1		app.get(route, callback)	get(route, callback)	js.get(route, callback)	fun.get(route, callback)
164	4	Which of the following HTTP method, are used to transmit a limited amount of data, as the data is included in the header?	GET	1		GET	POST	PUT	DELETE
165	4	_____ requests are used to transmit a large amount of data, as the data is included in the body of the request?	POST	1		GET	POST	PUT	DELETE
166	4	_____ are little pieces of information transmitted from a website and kept in the user's web browser when the user visits that page.	Cookies	1	LJU-2024	Session	Cookies	Forms	parameters
167	4	_____ functions are those that interact with the request and response objects (req, res) during the request-response cycle?	Middleware	1		Data binding	Routing	Middleware	Forms
168	4	What is the purpose of the Express.js app.listen() function?	To start the application server	1		To start the application server	To stop the application server	To restart the application server	To connect to a database
169	4	What is the purpose of the req object in Express.js?	var fs=require("fs"); fs.writeFile("example.txt","" , (err)=> {console.log(err); });	1		To represent the HTTP request	To represent the HTTP response	To store session data	To store user authentication data
170	4	What is the purpose of the res object in Express.js?	var os=require("os"); console.log(os.hostname()); console.log(os.arch()); console.log(os.platform()); console.log(os.tmpdir());	1		To represent the HTTP request	To represent the HTTP response	To store session data	To store user authentication data
171	4	_____ method is used to set content type in express JS. Consider res, app and expr as objects of response, express alias and express respectively.	res.set()	1		app.set()	expr.set()	res.set()	app.use()
172	4	Identify the correct code snippet to store passed "name" parameter to cookie, which expires after closing browser and terminate by printing "Done".	const username=req.query.name; res.cookie("uname",username); res.send("Done");	1		const uername=req.query["name"]; res.cookie("uname",username); res.send("Done");	const username=req.query.name; res.cookie("uname",username); res.send("Done");	const username=req.query["name"]; res.cookie("uname",username,{expires:new Date(Date.now()+1000)}); res.send("Done");	const username=req.query.name; res.cookie("uname",username, {expires:new Date(Date.now()+1000)}); res.send("Done");
173	4	Consider following HTML file with 4 choices using checkboxes. Identify the correct option to retrieve values of all selected checkboxes after clicking submit button. \<form action="http://localhost:6001/process_post" method="post"\> \<input type="checkbox" name="sports" value="Hockey"/\>Hockey \<input type="checkbox" name="sports" value="Cricket"/\>Cricket \<input type="checkbox" name="sports" value="Foootball"/\>Football \<input type="checkbox" name="sports" value="Volleyball"/\>Volleyball\</form\>	sports=req.body.sports; res.write\`Sports=${sports}\`);	1	LJU-2024	sports=req.body.sports; res.write\`Sports=${sports[0]}\`);	sports=req.body.sports; res.write\`Sports=${sports}\`);	sports=req.query.sports; res.write\`Sports=${sports}\`);	sports=req.query.sports[0]; res.write\`Sports=${sports}\`);
174	4	Identify the valid signature of app.get() method. req,res and next are the objects of request, response and middleware respectively.	app.get("/",function(req,res,next){});	1		app.get("/",function(req){});	app.get("/",function(res){});	app.get("/",function(req,res){});	app.get("/",function(req,res,next){});

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175	4	Consider following code and identify error/output.
		const expr=require("express");
		const sess=require("express-session");
		const app=expr();
		app.use(sess({
		  resave: false,
		  saveUninitialized: false,
		  secret: 'eyboard cat'
		}));
		app.get("/",(req,res)=>
		{
		  if(req.session.page_views)
		  {
		    req.session.page_views++;
		    res.send("You visited this page "+req.session.page_views+" times..");
		  }
		});
			Code will perfectly work as a hit counter by initializing page_views=1 automatically	1		Code will perfectly work as a hit counter by initializing page_views=1 automatically	Code will throw error while running	While running, page will try to load infinitely as page_views variable is not initialized	Will throw error, as JSON of session is not declared correctly

176	4	Which of the following is the correct syntax for setting a cookie in Express.js?	res.cookie('cookieName', 'cookieValue')	1	LJU-2024	app.cookie('cookieName', 'cookieValue')	req.cookie('cookieName', 'cookieValue')	res.cookie('cookieName', 'cookieValue')	req.cookies('cookieName', 'cookieValue')
177	4	Which of the following is the correct syntax for setting up a session in Express.js using the express-session middleware?	const session = require('express-session'); app.use(session({secret: 'mySecret'}));	1		const session = require('express-session'); app.use(session({secret: 'mySecret'}));	const session = require('express-session'); app.session({secret: 'mySecret'});	const session = require('express-session'); app.session(session({secret: 'mySecret'}));	const session = require('express-session'); app.use(session({session: {secret: 'mySecret'}}));
178	4	What is the purpose of the Express.js res.redirect() method?	To redirect the client to a different URL	0.5		To send data back to the client	To render a view template in the application	To redirect the client to a different URL	To handle errors that occur in the application
179	4	What is to be used to display captured values route parameters?	req.params	0.5		req.data	app.locals	req.params	res.data
180	4	Which of the following is the correct syntax to use Express.js in Node?	var app = require('express')();	0.5	LJU-2023	var_require('express')();	var = require('express')();	var app = require('express')();	var = import('express')();
181	4	Identify the method to destroy the cookie from browser.	response.clearCookie("CookieName")	0.5		response.destroy("CookieName")	response.delete("CookieName")	response.destroyCookie("CookieName")	response.clearCookie("CookieName")
182	4	Identify correct way to retrieve value of uname property using post method. "url" is an object of URL encoding.	Both (A) & (B)	0.5		app.post("/transfer",url,(req,res)=>{ res.send(req.body.uname)})	app.post("/transfer",url,(req,res)=>{ res.send(req.body["uname"])})	app.post("/transfer",url,(req,res)=>{ res.send(req.query.uname)})	Both (A) & (B)
183	4	What is the purpose of response.render() method in express.js?	to send response back to client with a rendered template	0.5		to send response back to client with a rendered template	to update database record based on data submitted in form	to redirect client to different URL	to parse incoming request bodies and extract form data
184	4	Identify output/error from following code. uname is a name of textfield having content "xyz". response.set("content-type","application/json") response.send(`<h1>${request.body.uname}</h1>`)	<h1>xyz<h1>	1		xyz with <h1> effect	Error as content inside send() is not a JSON object	<h1>xyz<h1>	Error as application/json is not a valid MIME type
185	4	Consider following code in an HTML file. Identify correct code to jump perfectly to JS file after selecting Click me link and print content of <h1>. Click me	Both (A) & (B) are valid	1		app.get("/jump",(req,res)=> { res.send(`<h1>Jumped on jump page</h1>`)})	app.post("/jump", url, (req,res)=> { res.send(`<h1>Jumped on jump page</h1>`)})	Both (A) & (B) are valid	app.send("/jump",(req,res)=> { res.send(`<h1>Jumped on jump page</h1>`)})
186	4	What will be the output on /html page if following code is there. app.get('/html', (req, res) => { const html = `     <html>       <head>         <title>HTML Response</title>       </head>       <body>         <h1>This is an HTML response</h1>         <p>You can send HTML content using Express.js</p>       </body>     </html> `; res.send(html); });	Will give html output	1		Error : html can not be defined as variable	Error : html can not be passed directly to res.send()	Will give html output	Error : html tags should be written in one line
187	4	What is the purpose of req.params object in Express.js?	To store HTTP request parameters	0.5		To store HTTP request cookies	To store HTTP request headers	To store HTTP request body	To store HTTP request parameters
188	4	Which method should be used to destroy a session and remove session data in express-session?	req.session.destroy()	0.5	LJU-2024	req.session.destroy()	req.session.remove()	req.session.clear()	req.session.delete()
189	4	How can you set a cookie with an expiration based on maxAge using express.js?	res.cookie(name, value, {maxAge: milliseconds})	1		res.setCookie(name, value, {maxAge: milliseconds})	res.cookie(name, value, {maxAge: milliseconds})	res.sendCookie(name, value, {maxAge: milliseconds})	res.cookie(name, value, {expires: date})
190	4	How do you retrieve the value of a cookie in Express.js?	Using the req.cookies object	1		Using the req.value() method	Using the req.cookie() method	Using the req.cookies object	Using the req.body object

191	4	What is the output of the following code?
		app.get("/",(req,res)=>
		{
		res.set("content-type", "text/html")
		res.send("<p style='color:red;'>welcome everyone</p>");
		});
			red-colored saying "welcome everyone";	1		red-colored saying "welcome everyone";	red-colored big font saying "welcome everyone";	saying "welcome everyone"	plain text saying "welcome everyone"

192	4	Identify the correct syntax for setting a cookie with expiry time in Express JS ?	res.cookie('Name', 'Value', { expires: new Date(Date.now() + 86400000) });	1		res.cookie('Name', 'Value', { expires: new Date(Date.now() + 86400000) });	res.cookie('Value', 'Value', { maxAge: 86400000 });	res.cookie('Name', 'Value', { expires: 86400000 sec });	res.cookie('Name', 'Value', { maxAge:(Date.new() + 86400000) });

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193	4	Give output of following code on web browser:
		const expr=require("express");
		const app=expr();
		app.get("/",(req,res)=>
		{
		 res.set("content-type","text/html");
		 res.write("Hello world!");
		 res.send(" Hello from LJ ");
		});
		app.listen(5004);
			Hello world!	1	LJU-2024	Hello from LJ	Hii Hello from LJ	Hello world!	Nothing gets print (Blank page)

194	4	const expr=require("express");
		const app=expr();
		const student=[{name:"ABC",age:28},{name:"PQR",age:31}
		,{name:"XYZ",age:20}];
		app.get("/",(req,res)=>
		{
		res.set("content-type","text/html");
		for (x=0;x<student.length;x++)
		{
		for(j=x+1;j<student.length;j++)
		{if(student[x].age > student[j].age)
		{ temp=student[x].age;
		student[x].age=student[j].age;
		student[j].age=temp; }
		}}
		for(i=0;i<student.length;i++)
		{ res.write(student[i].name+"\t"+student[i].age+"
		") }
		res.Send()
		}); app.listen(6001);
			ABC 20
			PQR 28
			XYZ 31
				1	LJU-2023	ABC 20
						PQR 28
						XYZ 31
							XYZ 20
							ABC 28
							PQR 31
								ABC 31
								PQR 28
								XYZ 20
									XYZ 31
									ABC 28
									PQR 20

195	4	Select correct output/error option of below code.
		app.get('/cookie', function(req, res){
		res.cookie('name', 'express'); //Sets name = express
		//req.cookie('ID','2',{ maxAge: 2000});
		res.cookie('email', 'express@gmail.com');
		res.clearCookies('email');
		res.send(req.cookies);
		});
			It will give an error regarding clearcookies function.	1		It will display json object of name, id and email in browser.	It will give an error regarding clearcookies function.	It will display json object of name and id in browser. And Id will not be expired in 2 seconds.	It will display json object of name, id and email in browser. And Id will be expired in 2 seconds.

196	4	What will be the output of the following code of middleware?
		
		const cb=(req,res,next)=>
		{ res.write(" First ");
		next(); }
		const cb1=(req,res,next)=>
		{ res.write(" Second ");
		next(); }
		app.use("/test",cb);
		app.get("/test",(req,res)=>
		        { res.write(" Third ");
		res.send(); });
			First
			Third
				1	LJU-2024	First Third	First
							Third
								First Second Third	Second
									Third

197	4	What is the output of following code on request URL::
		"http://localhost:3000/rollno:1000:hi" in express.
		var express = require('express');
		var app = express();
		app.get('/:name', function(req, res){
		res.send('The name you specified is ' + req.params);
		});
		app.listen(3000);
			The name you specified is [object Object]	1		The name you specified is rollno:1000:hi	The name you specified is rollno:1000	The name you specified is rollno	The name you specified is [object Object]

198	4	What does the following do, app.listen(port, [callback]])?	This function binds and waits for connections on the provided host.	0.5	LJU-2023	This method accepts an object as input and returns it to the requesting client.	This method specifies what to execute when a get request at the specified route is made.	This method is used to transmit a limited amount of data.	This function binds and waits for connections on the provided host.
199	4	Which object is used to handle data sent to the server through string or JSON object?	Request	0.5	LJU-2023	Response	Request	App	Next
200	4	What is middleware in Express.js?	A function	0.5	LJU-2023	A language	A library	A function	A server
201	4	Write an express.js script to define one JSON array of 3 objects having members name and age. Names must be sorted according to age. If user requests "sorted Names" URL, then all names should be printed according to ascending order of age.		5					

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
202	4	Process a form using post method. Form has fields like username, password, confirm password, gender, submit and reset buttons. After entering all fields, If password and confirm password matches, then form should be processed and all relevant and selected fields' values should be printed. Otherwise, by printing warning message in red color, it should terminate. No need to write file having form elements.		5					
203	4	write an express.js script to load an HTML file having username and password and submit button. On clicking submit button. It should jump on "check" page using "POST" method. If username is "admin" , then jump on next middleware to print "welcome… admin" , if username is not "admin" , then stay on same middleware to print "warning msg" in red color.		5					
204	4	write a sript to meet foll requirements. 1) create index.html page and open it on localhost 2) after clicking submit button, it should jump to savesessionpage.store username in session. 3) After saving session, redirect to fetchsession page and read session value. put a logout link button here. 4) destroy the session on this page and redirect to index.html		5	LJU-2023				
205	4	write an express.js script to print "hello World" also run on localhost:4000		3					
206	4	write an express.js script to use of routing method using home , about , contact , temp page and print message. /home- welcome to my home page , /about - welcome to my about page, /contact-welcome to my contact page ,/temp - welcome to my temp page		5					
207	4	write an express.js script to make one index.html file in this file we write simple heading tag and make one css file index.css put style using appropriate selector and link with js file and show output on localhost:3030.		5					
208	4	write an express.js to implement a form that allows users to submit data via POST request. Write code to create a route that handles the POST request and logs the submitted data to the console.		5					
209	4	how can you create and use a middleware function in express js?		3					
210	4	write an express js to link html , css and js file and show one image o.jpg. And also show the description of image.		3					
211	4	using Express js make student information form only two fileds like name and mobile no and send data on console after submitting "submit" button		5					
212	4	Write an ExpressJS to take a textarea & submit button. After clicking submit button the content of textarea should be represented on next page by writing each sentence (separated by dot) in new line.		5					
213	4	Write a script to meet following requirement using ExpressJS. 1. Create index.html which contains login page having fields like Username, Password & Gender. Open it on localhost. 2. After clicking on submit button, it should jump to savesession page. store username & gender in session. 3. After saving session, redirect to fetchsession page and read session values. Put a logout link button here. 4. After clicking logout button, it jumps to deletesession page. 5. Destroy the session on this page & redirect to index.html page.		5					

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
214	4	You have been assigned to develop a user feedback form for a website using Express.js and cookies. Implement the following requirements: Process a form with the following fields: Name, Email , Message , Rating (radio buttons: Bad, Average, Good, Very Good, Excellent) When the user submits the form, store their feedback information (name, email, message, and rating) in a cookie named "feedback" that expires in 10 seconds. Display a confirmation message to the user after successfully submitting the form & Create a link to display the feedback details stored in the "feedback" cookie. When the user click to the link, retrieve the feedback information from the cookie and display it on the page also include a link on the feedback details page to Logout. When the user clicks the link, user redirected to home page. Make app.js file use get method in express js. No need to write html file having form elements.		4					
215	4	write express script to maintain session and print how many times user visit the page. For ex., if user visit first time ,"you have visited page First time" message will print. if user visit second time ,"you have visited page second time" message will print. and so on		3					
216	4	Write an express.js script to define one JSON array of 3 objects having members name and age. If user requests "maxName" URL, then only the details of oldest person should be displayed.		5					
217	4	Write an express.js script to define 2 pages. 1st page has username and password. Store this username to cookie on 2nd page. Cookie must stay live for 1 day.		2					
218	4	Write an expressJS code which loads login.html file upon browsing localhost:3010. The Login.html file contains input for username,password and two checkboxes named remember and subscribe,on submitting the file it should go to /data page where username,password and selected checkboxes are pinted,in addition to that a logout button should be there,onclicking this button it should go back to home page "localhost:3010/".(GET/POST any method can be used)[Write all necessary files code]		5					
219	4	Write an express.js script to define one JSON array of 3 objects having members 'name' and 'height'. height must be sorted descending order according to name.		3					
220	4	Write an express.js script to define one JSON array of 3 objects having members 'name' and 'score'. score must be sorted descending order according to name.		3					
221	4	Write an express js script to link html , css and js file to show message "LJ University with a difference" with font size 50px and color "blue".		2					
222	4	Write express js script to perform tasks as asked below. 1. Create one HTML file which contains two number type input fields, one dropdown which contains options to select like (addition, subtraction, multiplication, division) and one submit button. 2. The input fields must contain the value greater than 0 else it will give a message "Please enter the valid number". Also, user must select any type of formula from the dropdown else give a message "You have not selected any formula". (Message will be displayed on "/calc" page.) 3. If one formula is selected and numbers are entered then Both numbers should be stored in cookies which expires in 50 seconds. Respective calculations will be performed on the page "/calc".		5					

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
223	4	Write an ExpressJS to take a UserName, Password, Textarea for "message" & submit button using get method. 1) After clicking submit button the content of submitted details should be represented on "/login" page along with one "show vowel" link. 2) By clicking "show vowel" link count of vowel used in submitted "message" will display on "/message" page. (Use next() to route page)		5					
224	4	Write an express.js script to print "The Pacific Ocean is the largest and deepest of the world ocean" also run on appropriate localhost.		2					
225	4	Write expressJS script to perform task as asked: (A) Create one HTML file which contains text-field named username, one dropdown which contains options of country like India, USA, Canada, Australia. & one submit button. (B) Once user clicked on submit button it will jump to next page than username & You are from "country name" which ever selected from drop box should be printed. (C) Use get method to request data.		4	LJU-2023				
226	4	what is middleware in express js? And how is it used in handling HTTP request?		2					
227	4	how to link html,css and js file in express js give any short example for it		2					
228	4	write a use of bodyparse.urlencodedmethod in express js.		2					
229	4	app.use is overloded method or not jystify that.		2					
230	4	give example of cookies. create cookies and delete cookies.		3					
231	4	how to send HTML and JSON data as a Response using Express js.		2					
232	4	Write an express.js script to load an HTML file having username and email and submit button. On clicking submit button. It should jump on "/std" page using "GET" method. If username is "student" and email id is "student@gmail.com", then jump on next middleware to print "hello student", if username and email fields are not matched, then stay on same middleware to print "warning msg" in red color. Note: no need to write HTML file.		4	LJU-2024				
233	4	Write a script to define an array of 2 JSON objects named emp having members id, name, year. Create a RESTful API to fetch and retrieve details of specific object by providing "id" on URL. Write all necessary files.Note: Upon passing id on the browser url it should display the content having that id. (i.e. on localhost:4000/api/101)		4	LJU-2024				

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
234	5	Which middleware is commonly used in Express.js to handle file uploads?	multer	0.5		body-parser	multer	express-fileupload	connect-multiparty
235	5	Which HTTP method is typically used for file uploads in web applications?	POST	0.5		GET	PUT	POST	DELETE
236	5	Which event is emitted by Multer when a file upload is completed successfully?	'upload'	0.5		'upload'	'file'	'complete'	'finish'
237	5	Which HTTP method is typically used for retrieving data from a RESTful API in Express.js?	GET	1		GET	PUT	POST	DELETE
238	5	Which status code should be returned when a resource is successfully created in a RESTful API?	201 Created	1		201 Created	200 OK	400 Bad Request	404 Not Found
239	5	What is the file extension for Pug templates in Express.js?	.pug	0.5		.pug	.hbs	.ejs	.html
240	5	What is the purpose of the "res.render" method in Express.js?	to send a response back to the client with a rendered template	1	LJU-2023	to send a response back to the client with a rendered template	to update a database record based on data submitted in a form	to redirect the client to a different URL	to parse incoming request bodies and extract form data
241	5	In Express.js, how do you set up Pug as the default view engine?	app.set('view engine', 'pug')	1		app.configure('views', 'pug')	app.engine('pug', require('pug').__express)	app.use('view engine', 'pug')	app.set('view engine', 'pug')
242	5	How do you pass data to a Pug template in Express.js?	res.render('template', {data: data})	1		res.render('template', {data: data})	res.send('template', {data: data})	res.render('data', {template: template})	res.send('data', {template: template})
243	5	Which module is required to send an email in Express.js?	Nodemailer	1		Nodemailer	Express-mailer	NodeMail	Express-sendmail
244	5	Which of the following is the correct way to handle errors that occur during the email sending process in Express.js?	Using the .catch() method on the nodemailer promise	1		Using a try-catch block	Using the .catch() method on the nodemailer promise	Using the .then() method on the nodemailer promise	Using the .finally() method on the nodemailer promise
245	5	Identify correct statement/statements to set constraint of file size up to 1 KB during file upload.consider JSON code inside multer callback.	const maxsize=1*1024; limits:{fileSize:maxsize}	1		const maxsize = 1*1024; limits:maxsize	const maxsize=1*1024; limits:{fileSize:maxsize}	const maxsize=1*1024*1024;limits:{fileSize:maxsize}	const maxsize=1*1024*1024; limits:maxsize;
246	5	How do you write comments in Pug?	var fs=require("fs"); fs.writeFile("example.txt","" , (err)=>{console.log(err); });	0.5		\\pug	**pug	/*pug	//pug
247	5	What is the correct syntax to send HTML formatted text in your email?	var os=require("os"); console.log(os.hostname()); console.log(os.arch()); console.log(os.platform()); console.log(os.tmpdir());	1		var mailOption= { from:"abc@gmail.com", to:"xyz@gmail.com", subject:"test mail", text:"\ its easy\ " }	var mailOption= { from:"abc@gmail.com", to:"xyz@gmail.com", subject:"test mail", html:"\ its easy\ " }	var mailOption= { from:"abc@gmail.com", to:"xyz@gmail.com", subject:"test mail", text:"its easy" }	var mailOption= { from:"abc@gmail.com", to:"xyz@gmail.com", subject:"test mail", content_type:"text/html", content:"\ its easy\ " }
248	5	Identify correct specification of \<form> tag to upload a file.	\<form action="upload" method="post" enctype="multipart/form-data">	0.5	LJU-2024	\<form action="upload" method="get" enctype="multipart/form-data">	\<form action="upload" method="post" encryptiontype="multipart/form-data">	\<form action="upload">	\<form action="upload" method="post">
249	5	_____ method is used to prepare storage of a file after uploading	multer.diskStorage()	0.5		multer.disk()	multer.diskStorage()	multer.keepStorage()	path.keepStorage()

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4

250	5	Identify output of following .pug file.
		doctype html
		html(lang="en")
		head
		title Hello
		body
		  h1
		    pre(style="text-transform:uppercase")
		      i
		      u Demo
			Demo is printed with h1 and underline effect only	1		Demo is printed with h1 and underline effect only	Demo is printed with h1 effect only without underline	Demo is printed with h1 effect with all letter capital, italic and underline effects	Demo is printed with h1 effect with italic and underline effect only

251	5	Identify the correct URL to fetch a JSON object named items having record_id=12 using RESTful API.	http://localhost:8000/items/12	0.5		http://localhost:8000/items	http://localhost:8000/	http://localhost:8000/items/12	http://localhost:8000/items/record_id
252	5	REST stands for……………	Representational State Transfer	0.5		Resource State Transfer	Request State Transfer	Remote Service Transfer	Representational State Transfer
253	5	Which method is used to send an email using Nodemailer?	trans.sendMail()	0.5		trans.createMail()	trans.sendEmail()	trans.composeEmail()	trans.sendMail()

254	5	What is the correct syntax for configuring disk storage for file upload using Multer in Express.js?	multer.diskStorage({
			 destination: 'uploads/',
			 filename: (req, file, cb) => {
			  cb(null, file.originalname);
			 },
			})
				1	LJU-2024	multer.diskStorage({
						 destination: 'uploads/',
						 filename: (req, file, cb) => {
						  cb(null, file.originalname);
						 },
						})
							multer.diskStorage({
							 path: 'uploads/',
							 filename: (req, file, cb) => {
							  cb(null, file.originalname);
							 },
							})
								multer.diskStorage({
								 folder: 'uploads/',
								 filename: (req, file, cb) => {
								  cb(null, file.originalname);
								 },
								})
									multer.diskStorage({
									 dest: 'uploads/',
									 filename: (req, file, cb) => {
									  cb(null, file.originalname);
									 },
									})

255	5	Which attribute is used to filter specific file in choose files dialog box?	accept	0.5	LJU-2023	type	method	filter	accept
256	5	Which method is used to set HTTP response headers in Express.js?	res.set()	0.5	LJU-2023	res.head()	res.send()	res.set()	app.set()
257	5	Which module is used to create a RESTful API in Express.js?	express.Router()	1	LJU-2023	expressREST	restfulExpress	express.Router()	expressAPI
258	5	Which of the following is the correct syntax to upload specific size file for defined variable as: Var maxSize=1*1024*1024	limits:{fileSize:maxSize}	1	LJU-2023	limits:{size:maxSize}	limit:maxSize	limit:{file:maxSize}	limits:{fileSize:maxSize}
259	5	Which of the following is an example of a route parameter in Express.js?	/users/:id	1	LJU-2023	/users	/users/:id	/users/send	/users/delete

260	5	What will be the output of the below pug code?
		//-Buffered
		//
		  p ABC
		  p XYZ
		//
		p ABC
		p XYZ
			ABC
			XYZ
				1		ABC
						XYZ
						ABC
						XYZ
							Nothing will be displayed	Only Buffered will be display in browser but not in html source code.	ABC
									XYZ

261	5	What is Pug?	A template engine for Node.js	1		A programming language	A template engine for Node.js	A database management system	A web server framework
262	4	Write an expressJS code in which RESTapi is created for json object named Places I love which contains name,country,state,city and rating out of 10(no decimal points) is given.upon passing ratings on the browser it should display the places having that rating.i.e. on localhost:30001/a/10 should display all the places having 10 ratings.		5					
263	4	write a code to create a link named "Contact Us" using a Pug template engine inside Express code. When you click on "Contact Us" it will redirect to the next page "/contact" and display the message "welcome to Contact us page".		3					

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
264	5	Write an express.js script to send automatic mail to specified user.		7	LJU-2023 , LJU-2024				
265	5	Write an express.js script to upload image.		5					
266	5	Write a code snippet to configure the multer middleware to store uploaded files in a specific directory called "uploads"		5					
267	5	Create an Express.js route that accepts file uploads using the multer middleware and resizes and saves the uploaded image in multiple sizes (e.g., small, medium, large) to a specific directory on the server.		5					
268	5	Write a code to implement file uploading and downloading with Express ?		5					
269	5	Write express js code to pass data from my Express.js application to a Pug template?		5					
270	5	How to implement search and filtering in a REST API with Express.js ?		5					
271	5	Write a code to set up Pug in Express.js?		5					
272	5	Write a code to set up nodemailer in Express.js?		5					
273	5	Write a code to upload file and access uploaded file in express js.		3					
274	5	Write express js script to load student form using pug file which contains following fields Name(text) Email(email) Course(radio : CE, IT, CSE) Once form submitted then data must be displayed on '/data' page using pug file. Means data should be submitted from express application to PUG file		4					
275	5	Write an express js script that allows only image type file to be uploaded using the multer middleware and saves the file to the specific directory called "IMAGES". If file other than image has been uploaded then it will give an error message that "Upload only image file".		4					
276	5	Write an express JS script to upload any type of file of size up to 50KB only.		3					
277	5	write a code to create a link named "About Us" using a Pug template engine inside Express code.when you click on "About Us" it will redirect to the next page "/about" and display the message "welcome to About us page".		4					
278	5	Perform the following tasks as asked: 1) Create a HTML file for response form and this file should be loaded on home('/') page. •Fields are : Name, Email and Submit button. 2) Once Response is submitted, message "Thank you for your response." Will be displayed on page '/response' and also send mail to the entered email id with the submitted response.		3					
279	5	Write a code to set up nodemailer in Express.js. Sender email id: "lju@gmail.com". Receiver email ids: "student@gmail.com and faculty@gmail.com". Mail subject should be "LJ University" Mail body contains "Welcome Student" in h3 tag and in table display data Date 28/06/23, Exam name FSD-2.		4					

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
280	5	Write an express js script to configure the multer middleware. Perform following tasks. 1) Create a pug file named "file.pug". This file contains heading(h3) "Upload your CV" in red color. And, a form with input type file(to browse and select file) and submit(to upload the file). 2) Create a js file named "file.js" and link this js and pug file to browse pug file on "/home" page. 3) After uploading a file display message on "/upload" page "(file original name) has been uploaded". 4) Save uploaded files to specific directory named "upload". And in this folder file must be stored in format of "lju-file.pdf" where "lju" is the field name.		5					
281	5	Write express js script to upload file with size limit of 1 MB to a specific directory named "Data" on the server.		5					
282	5	Write an express js script to configure the multer middleware. Perform following tasks. 1) Create a html form file named "form.html" in public folder. This file contain centrally oriented heading(h3) "Upload your File" in red color with background-color aqua. Along with choose file option(to browse and select file) and submit button(to upload the file). (Must use external css having name "effect.css" in public folder) 2) Create a js file to show result after uploading any type of file, message should be displayed on "/upload" page "(file original name) has been uploaded".(Css effect must include while running js code) 3) Save uploaded files to specific directory named "File". And in this folder file must be stored in format of "data-file.pdf" where "data" is the field name.		5					
283	5	Write ExpressJS script to load following table using pug file on localhost. Sr.no	Subject	Faculty Name 1	FSD-2	ABC 2	Python-2	DEF 3	COA	XYZ		3	LJU-2023				
284	5	Write express JS script to pass data like message, name and id from express application to pug template in h1, h2 and h3 tags respectively and display data in browser.		3	LJU-2024				
285	5	Write a script to define an array of 2 JSON objects named emp having members id, name, year. Create a RESTful API to fetch and retrieve details of specific object by providing "id" on URL. Write all necessary files.Note: Upon passing id on the browser url it should display the content having that id. (i.e. on localhost:4000/api/101)		4	LJU-2024				

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286	6	Correct the following code :
		function App() {
		 const abc="Hello";
		 return (
		  <div className="App">
		   <h1 style={{backgroundColor:"red"}}> Friends {2+2} </h1>
		   <Example fname=abc age="30"/>
		  </div>
		);
		}
		export default App;
			{} missing at :
			<Example fname={abc} age="30"/>
				1		Quotes missing at :
						<Example "fname"= abc "age"="30"/>
							$ missing at :
							<h1 style={{backgroundColor:"red"}}> Friends ${2+2} </h1>
								Quotes missing at :
								<h1 style={{ "backgroundColor":"red"}}> Friends {2+2} </h1>
									{} missing at :
									<Example fname={abc} age="30"/>

287	6	What output will be generated by following program.
		Example.js
		import React from 'react'
		const Example = (Props)=>{
		return(
		
		 {Props.Name} : {Prop.Price}
		
		);
		}
		export default Example;
		
		App.js
		import Example from "./Example";
		function App() {
		return (
		
		<Example Name="Mobile" Price="20000" />
		
		);}export default App;
			It will give an error	1		Mobile : 20000	Mobile
							20000
								It will give an error	Nothing will be printed.

288	6	What will will be the output of following program?
		import React from 'react';
		function App() {
		const handleclick = () => {
		alert ('Welcome to LJU');
		}
		return (
		
		<center>
		<button onClick={handleclick()}>Click me</button>
		</center>
		
		);
		}
		export default App;
			It will show an alert box once page will be loaded for first time, and it will perform nothing while clicking on button	1	LJU-2023,2024	By clicking on click me button it will show an alert box	It will show an alert box once page will be loaded for first time, and it will perform nothing while clicking on button	It will perform nothing	It will show an error.

289	6	What will be the correct syntaxt to perform any fuction on double click in REACT?	<button onDoubleClick = {doubleClickHandler}>Double Click here</button>	1		<button ondoubleClick = {doubleClickHandler()}>Double Click here</button>	<button ondoubleClick = {doubleClickHandler}>Double Click here</button>	<button onDoubleClick = {{doubleClickHandler}}>Double Click here</button>	<button onDoubleClick = {doubleClickHandler}>Double Click here</button>
290	6	Which of the following port is the default where react server runs?	3000	0.5		8080	3000	3030	3080
291	6	What are arbitrary inputs of components in react also known as?	Props	0.5		elements	Props	Ref	Keys
292	6	Identify the command which used to install a react app.	npm install create-react-app	0.5		npm install create-react-app	npm install -g create-react-application	npm install -g created-react-app	npm install -G create-app-react
293	6	How to create react-app?	npx create-react-app my-app	0.5		npx create-react-app -new my-app	npx create-react app my-app	npx new-react-app my-app	npx create-react-app my-app
294	6	Which is the correct option to style h1 tag.	<h1 style={{backgroundColor: "lightblue"}}>Welcome To LJU!</h1>	1		<h1 style={{backgroundColor: "lightblue"}}>Welcome To LJU!</h1>	<h1 style={backgroundColor: "lightblue"}>Welcome To LJU!</h1>	<h1 style={{backgroundcolor: "lightblue"}}>Welcome To LJU!</h1>	<h1 style={background-color: "lightblue"}>Welcome To LJU!</h1>
295	6	Select correct syntax to render output with "LJU" heading and textfield.	<> LJU <input type="text" className="demo"/> </>	1		 LJU <input type="text" className="demo"/> 	<> LJU <input type="text" className="demo"/> </>	<> LJU <input type="text" className="demo"> </>	LJU <input type="text" className="demo"/>

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4

296	6	What will be the output of the following program?
		const x = 9;
		let text = "Welcome";
		x = 10;
		if (x <= 10) {
		text = "Welcome To LJU";
		}
		return (
		 {text}
		)
			Error will be generated	1	LJU-2024	Welcome To LJU	Error will be generated	Welcome	x=10

297	6	Correct syntax to write Arrow function Msg = _____ "Hi, there!";	var fs=require("fs"); fs.writeFile("example.txt","" , (err)=> {console.log(err); });	0.5		> () =	() =>	() =	> () =>

298	6	Identify error/output in following code of App.js file.
		const arr=[10,20,30,40,50];
		let sum=0;
		return({ arr.map((v) => {
		sum=sum+v;
		return sum = {sum} }) });
			var os=require("os");
			console.log(os.hostname());
			console.log(os.arch());
			console.log(os.platform());
			console.log(os.tmpdir());
				1	LJU-2023	error, since sum=sum+v statement must be specified using JSX	Sum is printed correctly for each iteration in <h1> tag	error, since let sum=0 statement is specified at wrong place	sum is printed as "NaN" for each iteration in<h1> tag

299	6	Which is the correct syntaxt to get output of expression between HTML tags	const a=1;
			const b=1;
			return(
			 {a+b})
				1		const a=1;
						const b=1;
						return(
						 {{a+b}})
							const a=1;
							const b=1;
							return(
							 {a+b})
								const a=1;
								const b=1;
								return(
								 {{(a+b)}})
									const a=1;
									const b=1;
									return(
									 [a+b])

300	6	What will be the output of the following program?
		App.js
		import Example from "./Example";
		function App() {
		const Info = { name: "ABC" };
		return (
		
		 What is your name?
		<Example name={ Info }/>
		
		);}export default App;
		------------------ 	
		Example.js
		import React from 'react'
		function Example(props) {
		return(
		 My name is { props.name.name }!
		);}export default Example;
			What is your name?
			My name is ABC!
				1		What is your name?	What is your name?
							My name is ABC!
								My name is ABC!	Error will be generated

301	6	What will be the output of below program?
		
		App.js
		import {BrowserRouter,Route,Routes} from "react-router-dom";
		import contact from './Contact'
		
		function App() {
		return (
		
		<Navbar/>
		<BrowserRouter>
		<Routes>
		<Route exact path="/Contact" element={<contact >} />
		</Routes>
		</BrowserRouter>
		
		);
		}
		export default App
			SyntaxError	1		It will give an error as <BrowserRouter> tag is used in place of <Router> tag.	SyntaxError	It will run properly	It will not throw an error but wont display anything.

302	6	How many numbers of elements a valid react component can return?	1	0.5		Multiple	1	Not more than two	Null
303	6	What is the declarative way to render a dynamic list of components based on values in an array?	Using the Array.map() method	0.5		Using the reduce array method	Using the <Each /> component	Using the Array.map() method	With a for/while loop
304	6	In which of the following directory React.js components can be saved?	Inside the src folder	0.5		Inside the vendor folder	Inside the src folder	Inside the public folder	Inside the node modules

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305	6	What will be the output of the following code?
		App.js
		import Example from "./Example";
		function App() {
		 return (
		  <div className="App">
		  <Example fname="A" + " B" + " C"/>
		  </div>
		);}export default App;
		Example.js
		import React from 'react'
		
		const Example = (props) => {
		 return (
		  <div>
		   <h1>Friends:{props.fname}</h1>
		  </div>
		)}export default Example
			Error will be generated	1		Error will be generated	Friends : A B C	Friends:ABC	Friends:A+B+C

306	6	**What will be the output of following code?**
		
		App.js
		import Example from "./Example";
		function App() {
		 const abc="LJU";
		 return (
		  <div className="App">
		  <Example fname={abc} age="30"/>
		  </div>
		);}export default App;
		Example.js
		import React from 'react'
		const Example = (p) => {
		 return (
		  <div>
		   <h1>{p.fname}</h1>
		   <h1 style={{backgroundcolor:"blue"}}>age</h1>
		  </div>
		)}export default Example
			LJU
			age
				1		LJU
						Display "age" with blue background color
							LJU
							Display "30" with blue background
								LJU
								30
									LJU
									age

307	6	How to write comments in JSX?	{/* */}	0.5		{/* /*}	{*/ /*}	{/* */}	{*/ */}

308	6	**What will be the output of following code.**
		New.js
		import React from 'react';
		import img1 from "./P.jpg";
		import img2 from "./R.jpg";
		const New = () => {
		  const images=[{ id:1,pic:img1 },{id:1,pic:img2}];
		  return (
		   <div>
		    {images.map((val) => {
		     return (<div></div>) })}
		   </div>
		  )}
		export default New
		App.js
		import New from './New';
		function App() {
		 return (<div><New /> </div>);
		}export default App;
			2 Images will be displayed vertically on browser.	1		It will display 2 images side by side on browser	It will only display first image on browser	2 Images will be displayed vertically on browser.	It will only display last image on browser.

309	6	What is the correct syntax of map function. (student is an object name)	{student.map((val) => {
			  return (<h1>{val.id}</h1>
			  })}
				1		{student.map((val) = {
						  return (<h1>{val.id}</h1>
						  })}
							{student.map((val) => {
							  return (<h1>{val.id}</h1>
							  })}
								{student.map(val) => {
								  return (<h1>{val.id}</h1>
								  }}
									student.map((val) => {
									  return (<h1>{{val.id}}</h1>
									  })

310	6	Consider following code for App.js file. Identify error/output.
		function App(){
		 return(
		     <div>
		      This is Demo1
		     </div>
		     <div>
		      This id Demo2
		     </div>
		  ); } export default App;
			Error as JSX fragment tag must required	1	LJU-2024	This is Demo1 This is Demo2	This is Demo1	This id Demo2	Error as JSX fragment tag must required

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311	6	Consider following code in App.js file and Example.js file. Identify error/output
		import Example from "./Example";
		function App()
		{const obj=
		  { type:"car",models:["i10","i20","Grandi10"]}
		  const string=JSON.stringify(obj);
		return(
		        <Example name={obj}/>
		  )}
		  export default App;
		Example.js
		const Example = (props)=>{
		    return(
		          {props.name.type}
		    )
		  }export default Example
			"car" is printed successfully by referring props.name.type	1	LJU-2024	"car" is printed successfully by referring props.name.type	Error as props.name.type is invalid use of props to refer type	Error since type must be fetched by passing "string" rather than "obj"	Error as JSON object can not be passed to other component.i.e. "Example"

312	6	What will following code do?
		const arr=['A','B','C','a','b']
		    const newarr=arr.filter((value)=>
		  { if(value===value.toUpperCase())
		        return false;
		    else
		        return true;
		  })
			Returns array having only capital letters	1	LJU-2024	Returns array having only capital letters	Returns empty array	Returns array having only small letters	Error as not proper use of 'toUpperCase()'

313	6	Fill the blanks in following code to generate proper output.
		New.js
		import React from 'react';
		import img1 from "./P.jpg";
		import img2 from "./R.jpg";
		const New = () => {
		const images=[{ id:1,pic:img1 },{id:2,pic:img2}];
		return (
		
		{_____.map((val) => {
		    return (
		
		
		
		      )}
		    )}
		
		)}export default New;
			images,src={val.pic}	1	LJU-2024	images, src={{val.pic}}	img,src={val}	images,src={pic}	img,src="val.pic"

314	6	What will be the output of the following code : const arr=["a","java","Full Stack","567","Python"]; return (map function { arr.map((value)=> {return array values= {value.toUpperCase()} })}) }	map function array values= A array values= JAVA array values= FULL STACK array values= 567 array values= PYTHON	1		map function array values= A array values= JAVA array values= FULL STACK array values= 567 array values= PYTHON	A JAVA FULL STACK 567 PYTHON	Error:567 can't be added in list	Error:all inputs should be of type in array

315	6	Identify correct statement to apply CSS on a paragraph. The CSS is given as below.
		const css=
		{
		   color:"cyan",
		   textAlign:"center",
		   backgroundColor:"red"
		}
			<p style={{css}}>This is my data</p>	0.5		<p style={{css}}>This is my data</p>	This is my data	<p style={css}>This is my data</p>	<p style=[css]>This is my data</p>

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316	6	Identify error/output for following code.
		const arr=[10,2,30,3,50];
		const newarr=arr.filter((v)=>
		{
		    if(v%10===0) {return false;}
		    else{return true;}
		})
		let arr1=newarr.join(",")
		function Form1() {
		    return (
		        <h1>{arr1}</h1>
		    )
		}
			2,3	0.5		10,30,50	2,3	10,2,30,3,50	10,50

317	6	Identify error/output from code given below.
		function Form1() {
		    const d=new Date();
		    return (
		        <div>
		            <h1>{d.getDate()}</h1>
		        </div>
		    )
		}
			Prints current date number only	0.5		Prints current date number only	Prints current entire date in DD-MM-YYYY format	Prints current date in YYYY-MM-DD format	Prints entire date with month, day, time and IST

318	6	Select appropriate interpretation for following code. Assume entire code inside function component and arr is an integer array.
		let m=0;
		    return (
		        <>
		        {arr.map((v)=> { if(v<m){ m=v;}})}
		        <h1>Max={m}</h1>
		        </>
		    )
			Finds minimum element from any of the array i.e. array has combination of positive/negative elements	1		Finds maximum element from only positive array i.e.
						all elements are positive
							Finds maximum element from any of the array i.e. array has combination of positive/negative elements	Finds minimum element from only positive array i.e. all elements are positive	Finds minimum element from only negative array i.e. all elements are negative

319	6	Identify correct code to change CSS,attributes of a paragraph & text on double click.	function changeCssAttr(e)
			    {
			        e.target.innerHTML="Thanks buddy";
			        e.target.style.fontFamily="times new roman";
			        e.target.align="center";
			    }
			    return (
			        <>
			        <p onDoubleClick={changeCssAttr}>This is my para</p>
			        </>)
				1		function changeCssAttr(e)
						    {
						        e.target.value="Thanks buddy";
						        e.target.style.fontFamily="times new roman";
						        e.target.align="center";
						    }
						    return (
						        <>
						        <p onDoubleClick={changeCssAttr}>This is my para</p>
						        </>)
							function changeCssAttr(e)
							    {
							        e.target.value="Thanks buddy";
							        e.target.style.font-family="times new roman";
							        e.target.align="center";
							    }
							    return (
							        <>
							        <p onDoubleClick={changeCssAttr}>This is my para</p>
							        </>)
								function changeCssAttr(e)
								    {
								        e.target.innerHTML="Thanks buddy";
								        e.target.style.font-family="times new roman";
								        e.target.align="center";
								    }
								    return (
								        <>
								        <p onDoubleClick={changeCssAttr}>This is my para</p>
								        </>)
									function changeCssAttr(e)
									    {
									        e.target.innerHTML="Thanks buddy";
									        e.target.style.fontFamily="times new roman";
									        e.align="center";
									    }
									    return (
									        <>
									        <p onDoubleClick={changeCssAttr}>This is my para</p>
									        </>)

320	6	Consider following code in App.js file and Example2.js file. Identify error/output. Assume Example2 is properly imported in App.js file.
		App.js
		const myobj=
		    {
		        name:"Hello",age:3,siblings:["xyz","pqr","abc"]
		    }
		    const str=JSON.stringify(myobj);
		    return (
		        <div><Example2 name={myobj}/></div>
		    );
		Example2.js
		const Example2 = (props) => {
		    return (
		        <div>
		            <h1>{props.name.name}</h1>
		        </div>
		    )
		}
			"Hello" is printed successfully by referring props.name.name	1		"Hello" is printed successfully by referring props.name.name	Error as props.name.name is invalid use of props to refer name	Error since name must be fetched by passing "str" rather than "myobj"	Error as JSON object cannot be passed to other component i.e. "Example2"

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
321	6	What will be the output of below program? App.js import {Router,Route,Routes,Link} from "react"; import CA from './CA' function App() { return (<Router> <Routes> <Route path="/CA" element={<CA/>}/> </Routes> </Router>); }export default App	Cause of error is Router/Route/Routes/Link is imported from react	1	LJU 2023	It will give an error as <BrowserRouter> tag is not used	Reached at the end- no executable code	It will run properly	Cause of error is Router/Route/Routes/Link is imported from react
322	6	In ReactJS, to filter an array of objects named "dataArr" based on a specific condition, which of the following options shows the correct syntax?	dataArr.filter(item => item.id === 1)	1	LJU 2023	dataArr.filter(item => item.id === 1)	this.filterData(dataArr, item => item.id === 1)	filterData(dataArr, item => item.id === 1)	this.state.dataArr.filter(item => item.id === 1)
323	6	In a React application, a parent component ParentComponent is passing a prop called username to its child component ChildComponent. Which of the following options correctly accesses and displays the username prop in the ChildComponent?	{props.username}	1	LJU 2023	{this.props.uname}	{props.username}	{username}	{props}
324	6	Which of the following represents the correct syntax for rendering a React component named "Button" with JSX in ReactJS?	<Button></Button>	0.5	LJU 2023	<Button></Button>	render(Button)	React.render(Button)	React.createElement(Button)
325	6	Complete the array method that will allow you to run a function on each item in the array and return a new array. const myList = myArray._____((item) => {item})	map	0.5		execute	apply	map	iterate
326	6	What is the correct syntax to write an expression in JSX?	{ expression }	0.5		{{ expression }}	{ expression }	[expression]	#{ expression }
327	6	Which of the following options correctly represents JSX syntax in a React functional component?	Hello, World!	0.5		Hello, World!	React.createElement("div", "Hello, World!")	("div", "Hello, World!")	div: "Hello, World!"
328	6	Which of the following is used to access a function display() from h1 element in JSX?	{display()}	0.5		{{display}}	{`display()`}	{display()}	(display)
329	6	Which event handler in React is used to handle a form submission in a functional component?	onSubmit	0.5		onFormSubmit	onSubmitForm	onSubmit	handleFormSubmit

330	6	Identify error/output in following code of App.js file.
		const arr=["apple", "banana", "kiwi", "orange"];
		  const result = arr.filter((fruit) => {
		  if(fruit.length > 5)
		    { return true;}
		    else { return false; }
		});
		  var arr1=result.join(",")
		  return (
		  {arr1}
		
		  )
			Output:banana,orange	1		Output: apple,kiwi	Error: The filter function should have a closing parenthesis.	Output:banana,orange	Error: JSX elements should be returned within a single parent element.

331	6	Which syntax is commonly used for defining a route in React using react-router-dom?	<Route path="/about" element= {<About />} />	1		<Route path="/about" element=About />	<Route url="/about" element={About} />	<Route path="/about" element= {<About />} />	<Route path="/about"><About /></Route>
332	6	In a React form, which event is typically used to handle changes in an input field?	onChange	1		onChange	onSubmit	onClick	onInput

333	6	Give the correct output.
		  import React from 'react';
		  const App = () => {
		  const name = "John";
		  const age = 30;
		  return (
		
		   Hello, {name}! You are {age} years old.
		    {age > 18 ? - You are an adult : - You are a minor }
		     );};
		  export default App;
			"Hello, John!" and "You are 30 years old." with an unordered list item "You are an adult"	1		"Hello, John!" and "You are 30 years old." with an unordered list item "You are an adult"	"Hello, John!" and "You are 30 years old." with an unordered list item "You are a minor"	An error will occur due to incorrect syntax in the JSX	Nothing will be displayed on the screen

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
334	6	What is the correct syntax of map function? (student is an object name)	{student.map((val) => { return (\ {val.id}\ ) })}	1		{student.map((val) = { return (\ {val.id}\ ) })}	{student.map((val) => { return (\ {val.id}\ ) })}	{student.map(val) => { return (\ {val.id}\ ) }}	student.map((val) => { return (\ {{val.id}}\ ) })

335	6	Consider following code in App.js file and Program.js file. Identify error/output.
		App.js
		const obj1={Name:"Hiyan",Age:32,Branch:["CSE","CE","IT"]}
		const str = JSON.stringify(obj1);
		return(\ \<Program Name={obj1} />\ );
		Program.js
		const Program=(props)=>{
		return(\ \ {props.Name.Branch[0]}\ \ );
			CSE will be printed on browser in \<h1> tag	1	LJU-2023	CSE will be printed on browser in \<h1> tag	Prints entire JSON object including all members	Error: Value not initialized	CE will be printed on browser in \<h1> tag

336	6	Identify error/output in following code of App.js file.
		function App() {
		 const a="Hello";
		 const b=8;
		 return (
		\<div className="App">
		\<h1 style={{backgroundColor:"green"}}> The addition is: {a+2+b} \</h1>
		\</div>
		);
		}
		export default App;
			Output:"The addition is: Hello28" with green background color in \<h1> tag	1	LJU-2023	Output:"The addition is: Hello10" with green background color in \<h1> tag.	Output:"The addition is: Hello28" with green background color in \<h1> tag	Output:"The addition is: 28Hello" with green background color in \<h1> tag	Error: "value not initialized"

337	6	Which is/are the correct option/s to style h1 tag and to add comment in JSX respectively?	option 1 and 4 both are correct	1	LJU-2023	return (\<div>
						\<h1 style={{backgroundColor: "lightblue"}}> LJU!\</h1>
						{ // \<h1>Hi\</h1>
						}
						{/*\</h2> Hello \</h2>*/}
						\</div>)
							option 1 and 4 both are correct	return (\<div>
								\<h1 style={{backgroundColor: "lightblue"}}>LJU!\</h1>
								{ // \<h1>Hi\</h1> }
								{/*\</h2> Hello \</h2>*/}
								\</div>)
									return (\<div>
									\<h1 style={{backgroundColor: "lightblue"}}>LJU!\</h1>
									{
									// \<h1>Hi\</h1>
									}
									{/*\</h2> Hello \</h2>*/}
									\</div>)

338	6	What will be the output of following code?
		_____
		function map1() {
		let arr = [2, 4, 6, 3, 7, 5]
		const val = arr.sort();
		return (
		\
		   { arr.map((value)=>{
		        const val = value + 3 + "2"
		        return (\ {val}\ )
		   })}
		\
		)}export default map1
			52
			62
			72
			82
			92
			102
				1		102
						92
						82
						72
						62
						52
							7
							9
							11
							8
							12
							10
								52
								62
								72
								82
								92
								102
									232
									432
									632
									332
									732
									532

339	6	Random numbers stored as an array named "arr", how can you use the `filter` method to get only even numbers in output?	arr.filter(num => num % 2 === 0)	1		arr.filter(num => num % 2 === 0)	arr.filter(num => num % 2 !== 0)	arr.filter(num => num.isEven())	arr.filter(num => num % 2 === 1)
340	6	Identify Correct CSS syntax in below code for mystyle to get proper output. function App(){ const mystyle= ?? return (\<div> \<h1 style={mystyle}>Demo1\</h1> \</div>)} export default App;	{fontSize:"40px", color:"green", textTransform:"uppercase"}	1		font-Size:"40px", color:"green", text-Transform:"uppercase"	{font-Size:"40px", color:"green", text-Transform:"uppercase"}	{fontSize:"40px", color:"green", textTransform:"uppercase"}	fontSize:"40px", color:"green", textTransform:"uppercase"

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
341	6	Which of the following is not an incorrect statement/s regarding react. 1.React components are composed to create a user interface with only webpack. 2.All React components must act like recursive functions with respect to their props. 3..map() function is a callback function that is called once for each element in the array. 4.First file loaded by the browser in a basic React project is index.js 5.React's virtual DOM is A library that handles asynchronous operations in React applications.	Only 3	1		Only 3	3,5	3,4,5	3,4
342	6	What is React component?	JavaScript function	0.5		HTML element	HTML document	JavaScript function	Events
343	6	What do you call the message wrapped in curly braces below? let message = 'Welcome to LJU'; const element = {message} ;	a JS expression	0.5		a JS function	a JS element	a JS expression	a JS property
344	6	What will be the output of the following JSX code? <button onClick={() => alert("Button clicked!")}>Click me</button>	A button with the text "Click me" that triggers an alert when clicked.	1		A warning about the missing onClick handler.	A syntax error due to the arrow function syntax.	A button with the text "Click me" that triggers an alert when clicked.	A button is not clickable.
345	6	What will be the output of the following code: import React from 'react'; export function App() { const arr = [10, 20, 30, 40, 50]; return (<> {arr.map((v, index) => { let s = index * 5; return <h3 key={index}>s = {s}</h3>; })} </>); }	s = 0 s = 5 s = 10 s = 15 s = 20	1		s = 0 s = 1 s = 2 s = 3 s = 4	s = 0 s = 5 s = 10 s = 15 s = 20	s = 10 s = 20 s = 30 s = 40 s = 50	s = 50 s = 100 s = 150 s = 200 s = 250
346	6	Build basic react app that display "Hello World" in browser.		3					
347	6	Create an ReactJS app which shows the how to pass and read data using props		3					
348	6	Write a React code to print car's brand name and its model name which are passed as props using JSON.		4					
349	6	Write react js script to display alert box with text "Welcome to LJU" by clicking on button.		3					
350	6	Write react js script to display values in console while changing it in text box.		4					
351	6	Write react js script to display alert box with text "welcome to lju" only on double click button		3					
352	6	Create react js app to display all array elements in h2 tag using map function		3					
353	6	Write a program to create ReactJS application having an array of strings and convert it in Uppercase using MAP method.		4					
354	6	We have an array of numbers and we want to multiply each of these numbers by 5. Create react js app to display these multiplied numbers using map function.		5					
355	6	Create react app which displays 3 images using map function.		4					
356	6	Write a ReactJS code in which we have apply filter to skip digit "3" from the array of 1 to 5 and display all remaining digits of the array.		4					

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
357	6	Create react app to perform tasks as asked. First create files as asked below in routing folder 1. Home.js - for the home page content 2. Shop.js - for the shop page content 3. Contact.js - for the contact page content 4. Nopage.js - for the page other than mentioned links Create Main.js file which contains Links for Home, Shop and Product page. Also, add functionality of page routing. Finally call Main.js in App.js.		4					
358	6	Create React app to pass student name, roll number, t1 marks and t2 marks of 2 students to component and read the information and display in table format. Use Props.		5					
359	6	Create react app and use routing functionality of react to perform the tasks as asked. Create one file named Main.js which contains links for home and about page and routing functionality. In Home.js file add one image and heading(h1) "LJ University" In About.js file add branch list (CSE,IT,CE).		5					
360	6	Write a ReactJS code in which we have apply filter to skip digits which are less than "10" from the array and display all remaining digits of the array [3,5,11,4,17,8,21,2,26,13,8].		4					
361	6	Create React app to pass color(red), background color(yellow), font size(25px) and font style(italic) as properties to component and apply css to "Lj Students" text written in p tag. use Props		4					
362	6	Write react js script to perform the tasks as asked below. Add an array of objects which contains name and age of people. Apply filter to find people with age less than 40. And display name of all people using map function.		4	LJU-2023				
363	6	Write react js script to perform the tasks as asked below. Add an array of objects which contains name and branch(CSE,IT,CE) of students. Apply filter to find students who are from CSE branch. And display name of all studens of CSE branch using map function.		5					
364	6	Create react app and use routing functionality of react to perform the tasks as asked. Create one file named Main.js which contains links for React Js, Node Js and Express Js and routing functionality. Create components for each links and add heading "React JS","Node JS" and "Express JS" in component files Ex1.js, Ex2.js and EX3.js respectively.		4					
365	6	Create react app to pass product image, name and price as properties from one component to another component. Add an array of objects with pic, name and price properties of 2 products. Display Image name and price of the products in browser using map method.		4					
366	6	Create react app using function component to pass background color(green), font size(50px) font style(italic),text transform(uppercase) as properties to Example .js component and apply css to "This is an React Application" text written in h1 tag in Example2.js component.		3					
367	6	Create react app using function component to perform tasks as asked. First create files as asked below in folder named " component" 1. Login.js - for the login page content 2. Product.js - for the Product page content 3. Contact.js - for the contact page content 4. About.js - for the about page content Create Home.js file which contains Links for Login,Product,Contact and About page. Also, add functionality of page routing. Finally call Home.js in App.js. Write code for All necessary files.		4					
368	6	Write a react.js file to pass an integer value to a component, which is defined as a property in app.js file. Fetch that value in component and print its table on console. Write all necessary files i.e. App.js and Component.js. Perform task by function component.		5					
369	6	Write React JS script to display three products. Products having title, product image, price and description. All three products should be horizontally adjacent to each other. Note: using props show all products and use Functional component for complete this script.		3					
370	6	Implement a character counter that displays the number of characters entered in a textarea input.		4					

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
371	6	Write react js script to perform the tasks as asked below using functional component: 1)Add an array of objects which contains name and age of people. 2)Apply filter to find people with age less than 40. And display name of all people using map function.		3					
372	6	Create a React app to perform tasks as asked using functional component: 1)Create a react Router that includes three routes: Home, Product, and Contact and implement navigation between these routes. 2)Create a route that displays a Home page, Product details page and Contact details page. 3) When a user clicks on Home page it should navigate to home page and display "Welcome to LJU" in bold in h1 heading. When a user clicks on a Product page, it should navigate to the product detail page and display three products information with price and description using props. And when user clicks on Contact page it should navigate to contact details page and display contact information with blue color font.		4	LJU-2023				
373	6	Write a program to create function based ReactJS app having an array of 6 people having mentioned age [70,83,38,65,49,94] and display list of people whose age is greater than 60 using filter method. Also display total count of people whose age is greater than 60 on the same page.		4					
374	6	Create a React function component named File1 that receives two props, productName and price. The component should display the product name and price. Additionally, add a button labeled "Add to cart" to the component. When the button is clicked onClick event triggered and an alert should be displayed with the message "Your Product is Added to cart!".		5					
375	6	Write react js script to perform the task as below using function component: •Create array of objects which have id, name & city of person. •Display id & name of persons having city name "Ahmedabad" by using map function. No need to write App.js file.		3					
376	6	Create react app and use routing functionality of react to perform the tasks as asked. Create one file named navbar.js which contains links for Home, Profile and Dashboard page. In Home file add one image and heading(h1) "LJ University" In profile file displays a heading (h1) "Profile" and a list of details (e.g., Name, Email, Address).in Dashboard file display details of projects (i.e project name, backend,frontend,database)		4	LJU-2024				
377	6	Create a React functional component named UserCard that receives two props: username and email. The component should display the username and email. Additionally, add a button "Send Message" to the component. When the button is clicked, an onClick event should be triggered and an alert should be displayed with the message "Message sent to [username]!".		4	LJU-2024				

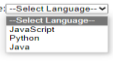| Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
378	7	Identify correct sequence to code API using Axios.	axios.get("url").then(response).catch(error)	0.5	LJU-2024	axios.get("url").catch(error).then(response)	axios.get("url").then(response).catch(error)	axios.catch(error).then(response).get("url")	axios.get("url").then(request).catch(error)

379	7	What will be the output of below program?
		import React, { useState } from 'react';
		
		const Hook1 = () => {
		  const [val,setval]=useState("red");
		  function TextChange(){
		    setval("green")
		  }
		  return (
		    <div>
		    <button onClick={TextChange}>Change Image</button>
		    <h1 style={{backgroundColor:val}}>Text</h1>
		    </div>
		  )
		}export default Hook1
			It will change the background color of the text to green. By default it will be red.	1		It will change the background color of the text to green. By default it will be red.	It will change the background color of the text to red. By default it will be green.	By default it will be red. It will change the background color of the text to green. And if I click the button again it will be changed to red.	It will continously change the text background color to "red" and "green", once button is clicked

380	7	What will be the output of the following program?
		const Hook2 = () => {
		  const [show,setShow]=useState(false);
		  const [buttonText,setbuttontext]=useState("Show");
		  const [text,setText]=useState('Hello');
		  function ButtonText() {
		    setShow(!show); console.log(show);
		    if(show === false) {
		      setbuttontext("Hide")
		      setText("")
		    } else {
		      setbuttontext("show")
		      setText("Hello")
		    } }
		  return (
		
		    <button onClick={ButtonText}>{buttonText}</button>
		     {text}
		
		  ) }export default Hook2
			By default it will display button with "Show" text and also displays hello. By clicking on button button text will be changed to "Hide" and hello will not be displayed.	1		By default it will display button with "Show" text and also displays hello. By clicking on button, button text will be changed to "Hide" and hello will not be displayed.	By default it will display button with "Hide" text and also displays hello. By clicking on button, button text will be changed to "Show" and hello will not be displayed.	By default it will display button with "Show" text and hello will not be displayed. By clicking on button, button text will be changed to "Hide" and hello will be displayed.	By default it will display button with "Hide" text and hello will not be displayed. By clicking on button, button text will be changed to "show" and hello will be displayed.

381	7	What is a state in React?	Internal storage of the component.	0.5		A permanent storage.	Internal storage of the component.	External storage of the component.	Virtual storage of the component.

382	7	What will be the output of following code :
		UR1.js
		import React, { useReducer } from 'react';
		const initialstate = 10;
		function reducer(state,action){
		    if(action.type==='Decrement'){return state-1;}
		}
		function UR1() {
		  const [state, dispatch] = useReducer(reducer, 20);
		  return (<>
		    <button onClick={()=> dispatch({type:"increment"})}>
		      Increament
		    </button>
		    <button onClick={()=> dispatch({type:"Decrement"})}>
		      Decrement
		    </button>
		     {state} </>
		  ); }export default UR1
			It will initialize number with 20 and it will not increase the number when you clicked on increment button but decrement action will be performed when clicked on decrement button	1		It will initialize number with 20 and increment it while clicking on increment button and decrement it while clicking on decrement button	It will initialize number with 10 and increment it while clicking on increment button and decrement it while clicking on decrement button	It will initialize number with 10 and it will not increase the number when you clicked on increment button but decrement action will be performed when clicked on decrement button(	It will initialize number with 20 and it will not increase the number when you clicked on increment button but decrement action will be performed when clicked on decrement button

383	7	What is the use of UseContext Hook ?	Used to create global variables	0.5		Used to create global variables	Used to transfer values as a agrgument to another components	To create a constant varible	To use createContext hook

384	7	What will be the error in the following program :
		import React, { useState } from 'react'
		
		const Hook3 = () => {
		  const[firstName,setFirstName]=useState("");
		  function handleChange(){ setFirstName(e.target.value); }
		  return (
		
		    <input name="firstName" value={firstName}
		onChange={handleChange}/>
		     {firstName}
		
		  )}
		export default Hook3
			e is not defined	1	LJU-2024	Unexpected use of Input type	handleChange is undefined	e is not defined	firstname is undefined

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4

385	7	What will be the output of following code?
		import React, { useState } from 'react'
		const HookQB = () => {
		  const[task,setTask]=useState("");
		  const[toDoList,settodolist]=useState([]);
		  function handleChange(event)
		  { setTask(event.target.value); }
		  const OnAdd=()=>{ settodolist([...toDoList,task]);};
		  return (
		    <input name="task" value={task} onChange={handleChange}/>
		    <button onClick={OnAdd}>Add Task</button>
		    <div>
		    {toDoList.map((task) => {return (<p>{task} </p>); })}
		    </div>
		  )}
		export default HookQB
			It will give an error regarding JSX elements must be wrapped in an enclosing tag	1		It will give an error regarding JSX elements must be wrapped in an enclosing tag	It will give a proper output and add tasks	Nothing will be displayed in browser	Input box will be displayed but wont perform anything while clicking on add button

386	7	Find out correct syntax?	return (
			  <>
			    <Num1.Provider value="20">
			      <Num2.Provider value="5">
			        <Comp1/>
			      </Num2.Provider>
			    </Num1.Provider>
			  </>
			  )
				0.5	LJU-2024	return (
						  <>
						    <Num1.provider value="20">
						      <Num2.provider value="5">
						        <Comp1/>
						      </Num2.Provider>
						    </Num1.provider>
						  </>
						  )
							return (
							  <>
							    <Num1.Provider value="20">
							      <Num2.provider value="5">
							        <Comp1/>
							      </Num2.provider>
							    </Num1.Provider>
							  </>
							  )
								return (
								  <>
								    <Num1.provider value="20">
								      <Num2.provider value="5">
								        <Comp1/>
								      </Num2.provider>
								    </Num1.provider>
								  </>
								  )
									return (
									  <>
									    <Num1.Provider value="20">
									      <Num2.Provider value="5">
									        <Comp1/>
									      </Num2.Provider>
									    </Num1.Provider>
									  </>
									  )

387	7	What will be the output if following code is given :
		Comp1.js :
		import React, { createContext, useState } from 'react'
		import UserContext from './Usercontext';
		import Comp4 from './Comp4';
		const Comp1 = () => {
		  const[arr,setarr]=useState("1 5 3 4 5");
		  return (<div>
		    <UserContext.Provider value={arr}>
		      <Comp4/>
		  </UserContext.Provider> </div>
		) }export default Comp1
		Comp4.js
		import React, { useContext } from 'react'
		import UserContext from './Usercontext';
		const Comp4 = () => {
		  let arr=useContext(UserContext);
		  var y=arr.split(" ");var sorted=y.sort();
		  sorted=sorted.join("-")
		  return (<div><h1>{sorted}</h1>
</div>) }export default Comp4
		Usercontext.js
		import { createContext } from "react";
		const UserContext = createContext()
		export default UserContext;
			1-3-4-5-5	1		Error will be given	1-3-4-5-5	1-3-4-5-5	5-5-4-3-1

388	7	What will be the output if we replce sorted=sorted.join("-") with sorted=sorted.join(".") in above question.	1.3.4.5.5	1		Error will be given	1 3 4 5 5	1.3.4.5.5	5.5.4.3.1

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
389	7	What will be the ouput of above program if we add following line sorted = sorted.map((n) => n * n); **before** sorted=sorted.join("-")	1-9-16-25-25	1		Error will be given	1-9-16-25-25	1.9.16.25.25	25-25-16-9-1
390	7	What are the two ways to handle data in React?	State & Props	0.5		State & Props	Services & Props	State & Components	State & Services
391	7	Identify the correct result of following code snippet const[cb,setCb] = useState(""); const handleChange=(e)=>{setCb(e.target.value);} const handleChange1=(e)=>{setCb(e.target.value);} return(<input type="radio" value="Male" onChange="{handleChange} name="gender" />Male <input type="radio" value="Female" onChange="{handleChange1} name="gender" />Female {cb});	Both "Male" and "Female" will be printed by selecting respective radio buttons	1		Error, since onChange event can't be applied on radio button	Error, since we have to take two separate useStates to store 2 radio button values	radio buttons are shown correctly, but events are not performed on both radio buttons, no error is shown	Both "Male" and "Female" will be printed by selecting respective radio buttons
392	7	What will be the output of following program? **FormValidation.js** import React from 'react' import PropTypes fromimport React, { useState } from 'react' const FormValidation = () => { const[firstname,setfirst]=useState(""); const handlefirst=(e)=> { setfirst(e.target.value);} const handlesubmit=(e)=>{ e.preventDefault();alert("form Submitted!!!"); }; return (<form> <label>First Name:<input value={firstname} onChange={handlefirst} required/></label> <button type="submit">Submit</button> </form>) }export default FormValidation **App.js** import FormValidation from './FormValidation'; import New from './New'; function App() { return (<FormValidation />); }export default App;	Error will be generated	1		Alert will be displayed once the form submitted.	Error will be generated	Alert will not be displayed as no fuction is called while submitting the form	Alert will be displayed once the form submitted and also redirected to next page with firstname value
393	7	What action will be performed if we perform function "onClick" in textfield? <input value={firstName} onClick={handlefirst} required/>	It will not allow to enter anything in textfield			It will not perform anything on submitting the form.	It will not allow to enter anything in textfield	It perform all the actions which are passed in that function.	It gives an error.
394	7	How to add handling function in input text field using JSX in react js?	<input value={firstName} onChange={handlefirst} required/>	0.5		<input value={firstName} onChange={handlefirst} required/>	<input value={firstName} onChange={{handlefirst}} required/>	<input value={firstName} onChange="handlefirst()" required/>	<input value={firstName} onChange="{handlefirst}" required/>
395	7	Consider following code regarding to react CSS.select correct option as per the syntax.	const myStyle = { backgroundColor: "blue", fontFamily: "Sans-Serif" }; return (<h1 style={myStyle}>Hello Style!</h1>);	1	LJU-2024	const myStyle = { backgroundColor: "blue", fontFamily: "Sans-Serif" }; return (<h1 style={{myStyle}}>Hello Style!</h1>);	const myStyle = { background-color: "blue", font-family: "Sans-Serif" }; return (<h1 style={myStyle}>Hello Style!</h1>	const myStyle = { backgroundColor: "blue", fontFamily: "Sans-Serif" }; return (<h1 style={myStyle}>Hello Style!</h1>);	const myStyle = { background-color: "blue", font-family: "Sans-Serif" }; return (<h1 style={{myStyle}}>Hello Style!</h1>);
396	7	_____ hook is used to maintain a state and its updating function with its definition.	useState	0.5		useState	useEffect	useForm	useReducer
397	7	Which of the following options correctly represents the syntax for using useReducer in ReactJS?	const [state, dispatch] = useReducer(reducerFunction, initialState);	0.5		const [state, dispatch] = useReducer(reducerFunction, initialState);	const {state, dispatch} = useReducer(reducerFunction, initialState);	const [dispatch, state] = useReducer(initialState, reducerFunction);	const {dispatch, state} = useReducer(initialState, reducerFunction);

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4

398	7	**Consider following 2 files in terms of useContext. Identify error/output.**
		Form1.js
		import {createContext} from "react"
		import B1 from "./B1";
		const Fname=createContext();
		function Form1() {
		  return(
		    <Fname.Provider myname="XYZ">
		      <B1/>
		    </Fname.Provider>
		
		) }export default Form1;export {Fname}
		B1.js
		import React, { useContext } from 'react'
		import { Fname } from './Form1'
		function B1() {
		  const name=useContext(Fname)
		  return (Welcome {name}
		) }export default B1
			Welcome	0.5		Welcome XYZ	Welcome	Welcome myname	Error, as Fname must be assigned in component Form1

399	7	**Consider following code to update a text on change of a radio button selection. Identify error/output.**
		function Form1() {
		  let[formdata,setFormData]=useState("");
		  function handleChange(e)
		  { formdata=e.target.value;}
		return (<>
		<form>
		<input type="radio' name="sports" value="Cricket" onChange={handleChange}/>
		Cricket
		<input type="radio' name="sports" value="Volleyball" onChange={handleChange}/>
		Volleyball
		<input type="radio' name="sports" value="Hockey" onChange={handleChange}/>
		Hockey
		<input type='submit'/>
		</form>
		 {formdata}
		</>)} export default Form1;
			Radio buttons are shown but, value of selected button is not displayed, as value is not set by "set" function	0.5		Radio buttons are shown but, value of selected button is not displayed, as value is not set by "set" function	Error as value is not set by "set" function.	Error as only "onClick" works for radio button, "onChange" does not work.	Error as "handleChange" function must be defined outside the Form1 component.

400	7	**Consider following code and comment on its interpretation. Assume "useReducer" is imported correctly.**
		const iv=0;
		function red(st,a){
		  if(a.t==="incr") {return ++st;}
		  else {return --st;}
		function Form1() {
		  const[st,dis]=useReducer(red,iv);
		  return (
		    <>
		      <button onClick={()=>dis({t:"incr"})}>Increment</button>
		      <button onClick={()=>dis({t:"decr"})}>Decrement</button>
		       {st}
		    </>
		)}
			Performs both increment and decrement by clicking respective buttons	1		Only performs increment in number by clicking 1st button, it cannot do decrement	Only performs decrement in number by clicking 2nd button, it cannot do increment	Cannot do increment/decrement by clicking respective buttons, Only 0 is displayed	Performs both increment and decrement by clicking respective buttons

401	7	The useContext hook in React is primarily used to:	Share state and data between components without prop drilling.	0.5		Manage and update the state of a component using a reducer function.	Fetch data from an API and handle asynchronous operations.	Create a new context for managing global state.	Share state and data between components without prop drilling.
402	7	What does the useState hook in React return?	An array with two elements: the current state value and a function to update the state.	0.5		An object with properties state and setState.	An array with two elements: the current state value and a function to update the state.	A single value representing the current state.	An object with a get method to access the state and a set method to update the state.

403	7	Consider the following React component:
		import React, { useState } from 'react';
		
		const FormExample = () => {
		  const [username, setUsername] = useState(");
		
		  const handleSubmit = (e) => {
		  e.preventDefault();alert(`Hello, ${username}!`);};
		  return (
		    <form onSubmit={handleSubmit}>
		      <input type="text" value={username} onChange={(e) => setUsername(e.target.value)} />
		      <button type="submit">Submit</button>
		    </form>
		);}; export default FormExample
		When the user submits the form without entering any username, what will happen?
			An alert with "Hello, !" will be shown	1		An alert with "Hello, !" will be shown.	An alert with "Hello, undefined!" will be shown.	The form will be submitted, but nothing will happen.	The component will throw a console error.

404	7	How do you initialize a state variable named count with an initial value of 0 using the useState hook in a React component	const [count, setCount] = useState(0);	1		const [count, setCount] = useState(0);	const [count, setCount] = useState($count:0);	const {count, setCount} = useState(count: 0);	const [count, setCount] = useState(count: 0);

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
405	7	Consider you have a context named ThemeContext that provides a theme value. How would you consume this context value using the useContext hook inside a functional component	const theme = useContext(ThemeContext);	1		const { ThemeContext } = useContext();	const { theme } = {useContext(ThemeContext)};	const theme = useContext(ThemeContext);	const { [theme]} = ThemeContext;

406	7	What will be the output?
		import React, { useReducer } from 'react'
		const Hook = () => {
		const [sum,dispatch]=useReducer((state,action)=>{
		return state+action;
		} ,20);
		return (
		
		 {sum}
		<button onDoubleClick={()=>dispatch(5)}>Add</button>
		
		)
		}
		export default Hook
			It displays number 20 and increase the number by 5 each time when DoubleClick on button	1		It displays number 20 and increase the number by 5 each time when DoubleClick on button	It displays number 5 and increase the number by 20 only once	It displays number 20 and increase the number by 5 each time when button clicked	It displays number 5 and increase the number by 20 each time when button clicked

407	7	how do you use the useContext hook to access the context value?	const contextValue = useContext(myContext);	0.5		const contextValue = useContext(myContext);	const contextValue = useValue(myContext);	const contextValue = this.useContext(myContext);	const contextValue = this.useValue(myContext);
408	7	How do you handle errors in Axios?	By using the .catch() method on the promise returned by Axios	0.5		By using the .error() method on the response object	By using a try-catch block	Axios automatically handles errors and throws exceptions	By using the .catch() method on the promise returned by Axios

409	7	How do you invoke setTxt only when component mounts, using hooks?
		function MyComponent(props) {
		const [txt, setTxt] = useState(false);
		return Done: {txt} ; }
			useEffect(() => { setTxt(true); }, []);	1		useEffect(() => { setTxt(true); });	useEffect(() => { setTxt(true); }, [setTxt]);	useEffect(() => { setTxt(true); }, [txt, setTxt]);	useEffect(() => { setTxt(true); }, []);

410	7	What will be the output?
		import React, { useState, useEffect } from 'react';
		const Ex = () => {
		const [seconds, setSeconds] = useState(0);
		useEffect(() => {
		setInterval(() => {
		setSeconds(prevSeconds => prevSeconds + 1);
		}, 1000);
		},[])
		return (
		   Seconds: {seconds}
		) }
		export default Ex
			It renders the component every 2 seconds	1	LJU-2023	It updates the scroll position whenever the component renders	It increments the seconds state every second	It handles clicks on a button to increment seconds	It renders the component every 2 seconds

411	7	What will be the output of below code?
		import { useState } from "react";
		function Example () {
		const [buttonText,setbuttontext]=useState("Hide");
		const [text,setText]=useState('Hello');
		function clickButton() {
		if(buttonText === 'Hide') {
		setbuttontext("Show")
		setText("")
		} else {
		setbuttontext("Hide")
		setText("Hello")
		}}
		return (
		  <button onClick={clickButton}>Hide/show</button> {text}
		)}export default Example
			Initially the button text "Hide/show" and the text "Hello" will be displayed in the browser. Clicking that button will not change button text just the text will be hidden.	1	LJU-2023	Initially the button text "Hide/show" and the text "Hello" will be displayed in the browser. Clicking that button will not change button text just the text will be hidden.	Initially the button text "Show" and the text "Hello" will be hidden in the browser. Clicking that button will change button text to "Hide" and the text will be displayed	Initially the button text "Hide" and the text "Hello" will be hidden in the browser. Clicking that button will not change button text and the text will be displayed.	Initially the button text "Hide" and the text "Hello" will be displayed in the browser. Clicking that button will change button text to "Show" and the text will be hidden.

412	7	Find the correct syntax for Axios?	function fetchactivity(){
			axios
			.get(siteURL)
			.then((data) => console.log(data.data))
			.catch((error)=>console.log(error))
			}
				1		function fetchactivity(){
						axios
						.get(siteURL)
						.than(data => console.log(data.data))
						.catch(error=>console.log(error))
						}
							function fetchactivity(){
							axios .get(siteURL)
							axios .than(data => console.log(data.data))
							axios .catch(error=>console.log(error))
							}
								function fetchactivity(){
								axios
								.get(siteURL)
								.then((data) => console.log(data.data))
								.catch((error)=>console.log(error))
								}
									function fetchactivity(){
									axios
									.get(siteURL)
									.then({data} => console.log(data.data))
									axios.catch({error}=>console.log(error))
									}

413	7	Which of the following command can prevent default behavior at in react?	preventDefault()	0.5		avoidDefault()	revokeDefault()	preventDefault()	preservDefault()
414	7	Write a program to build React app having a button which increase count by 1 while clicking it. (useState)		3					

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
415	7	Create a program to build React app having buttons to increment and decrement the number by clicking that respective button. Also, increment of the number should be performed only if number is less than 10 and decrement of the number should be performed if number is greater than 0.		4					
416	7	Write a program to build React app to perform the tasks as asked below. •Add three buttons "Change Text", "Change Color", "Hide/Show". •Add heading "LJ University" in red color(initial) and also add "React Js Hooks" text in h2 tag. •By clicking on "Change text" button text should be changed to "Welcome students" and vice versa. •By clicking on "Change Color" button change color of text to "blue" and vice versa. This color change should be performed while double clicking on the button. •Initially button text should be "Hide". While clicking on it the button text should be changed to "Show" and text "React Js Hooks" will not be shown.		5					
417	7	Write a program to build React app having a button which changes image by clicking it. (Add two images)		3					
418	7	Write a program to build React app having 2 input text fields (First name and last name) and display the entered value on the same page.		3					
419	7	Write a program to build React app for task todo list. •Add 1 input field and button and by clicking on button display entered task on the same page. •Also, add delete button with each added task to delete the task.		5					
420	7	Write a program to build React app having text and button to show and hide the text.		3					
421	7	Write a program to build React app having 2 input number fields (Number 1 and Number 2) and display the entered value on the same page. And then click on add button to calculate the addition of two numbers. Display the addition in h2 tag.		3					
422	7	Write a program to build React app to perform the tasks as asked below. •Add a button "Change Text". •Add "Hello" text in h2 tag. •By clicking on "Change text" button text should be changed to "How are you?" and vice versa.		4					
423	7	Write a ReactJS script to create a digital clock running continuously. (useEffect)		3					
424	7	Write a ReactJS script to understand concept of empty array of useEffect.		3					
425	7	Write a reactJS program to perform the tasks as asked below. •Create one main file (parent file) name Comp.js and other 3 component files Comp1.js, Comp2.js, Comp3.js. •Pass Number1 and Number 2 from Comp.js file to Comp3.js file. Calculate multiplication of the numbers using useContext.		4					
426	7	Write a reactJS program to perform the tasks as asked below. 1) Create one main file (parent file)Main.js and other 2 component files Comp1.js, Comp2.js. Pass username from Main.js file to Comp2.js file. Display this user name in browser in Blue color. (useContext)		3					
427	7	Create a Sign-up form using React asking for username, age, email, password, and confirm password. When the user clicks on the 'submit' button, it will display an alert box with a username, age, and email details entered by the user.		4					
428	7	Create a React Form for email and password validation.		2					
429	7	Create a React Form for select any of pizza size using radio button.		3					
430	7	Create React Js app to perform the tasks as asked below. -Add buttons "increment" and "decrement" -By clicking on increment button the value should be incremented by 1 and by clicking on decrement button value should be decremented by 1. -Use useReducer hook to perform the above tasks.		3					

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
431	7	Create React Js app to perform the tasks as asked below. -Add button "Click" -By clicking on button the value should be incremented by 5. Initial value is 20. -Use useReducer hook to perform the above tasks.		3					
432	7	Create a react app to generate random joke using AXIOS to make API request.		4					
433	7	Create react app to craete exam form. Fields are as under. Name -text, Email -email Password -password, Gender-radio, Exam date-datepicker, Exam center-dropdown) Use useState hook to save the state of the form. Also, add validation for the email and password fields. Display submited values.		4	LJU-2023				
434	7	Create a react app using function component to display image of flower using AXIOS to make API request. Use API Url (https://flower.ceo/api/image/random). Key name in API which store image is "sample".		3					
435	7	Create a Student Data Entry Form using React. Fields are Student Name (input Field), Gender (Radio Button values are Boy, Girl), Subjects (Dropdown values are English, Gujarati), Comments (textarea). When the user Click on the Submit button , it will display an alert and use useState hook.		4					
436	7	Build a survey form with radio buttons, and dropdowns. display selected results on the alert box on user responses using React JS Hooks.(App.js file not required). **Survey Form** Select your favorite programming language: --Select Language-- --Select Language-- JavaScript Python Java Select your experience level: ○ Beginner ○ Advanced Submit		5					
437	7	Create a React app with two components using functional component: Parent and Child. Use useContext to pass two colors from the Parent component to the Child component. The Child component should display the received color as its background(red) and other color(green) on its font to display "Welcome to LJU".		4	LJU-2023				
438	7	Create a React app with three components: parent component P.js and two child components C1.js, C2.js. Use useContext hook to pass two colors from the Parent component P.js to the Child component C2.js. (Yellow color as font color and Blue color as background color) In Child component C1.js import child component C2.js . In C2.js display "Full stack Development" text in h1 heading with above mentioned background color and font color using context.		5					
439	7	Create a ReactJS program using function component having two input fields for num1 and num2 and two buttons for addition and subtraction of the two numbers. Display the respective outputs on same page using useState hook. Also display alert box as an effect on every time the addition button is clicked using useEffect hook.		5					

Sr.No	unit_number	option4	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
440	7		Create react app which to perform following task using function component: •Create one main file name F1.js & other 2 component files F2.js & F3.js. •Main file contains form with following fields: oFirst Name (Input type text) oLast Name (Input type text) oMessage (Textarea) oCity (Dropdown) oGender (Radio Button) •Pass values of all fields from F1.js file to F3.js file. And display all submitted values in alert box using useContext & useState hook. No need to write App.js file.		5					
441	7		Create a React app with two components (Example1 and Example2) using functional component.Use useContext to pass one color and one number from the Example1 component to the Example2 component. The Example2 component should display the received color as font color and number as font size of text "This is an Example of Hook"		3	LJU-2024				

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
442	8	Git checkout command used for?	to switch between branches	0.5		to create new documents	to switch between branches	Both (A) and (B)	to delete the repository
443	8	Which command defines the author email to be used for all commits by the current user.	git config --global user.email	0.5		git email--amend	git config --global user.email	git clean -f	git log --author=""
444	8	What is the full form of GIT?	Global information Tracker	0.5		Global International Track.	Global information Traffic.	Global information Tracker	None of the above
445	8	Which Command is used to show limited number of commits?	git log -n	0.5		git log -online	git log -n	git config -n	git log status
446	8	What is the command to get the current status of the Git repository?	git status	0.5		--status	git status	git getStatus	git config --status
447	8	What is the command to initialize Git on the current repository?	git init	0.5		start git	git start	git init	initialize git
448	8	Git automatically adds new files to the repository and starts tracking them.	FALSE	0.5		TRUE	FALSE	Can not say	None of these
449	8	How do you supply a commit message to a commit?	Git commit -m "I'm coding!"	0.5		Git add "My first commit"	Git comit "My first commit"	Git commit -m "I'm coding!"	Git message "My first commit"
450	8	What is the command to view the history of commits for the repository?	git log	0.5		git log	git commits	git history	git --full-log
451	8	In Git, a branch is:	A separate version of the main repository.	0.5		A secret part of Git config.	A separate version of the main repository.	A small wooden stick you can use to type commands.	Nothing, it is a nonsense word.
452	8	Which two configuration properties does the tool expect to be configured after installing Git and prior to issuing the first commit?	username and email address	0.5		username and password	username and IP address	email address and password	username and email address
453	8	Where are files stored before they are committed to the local repository?	staging area/index	0.5		git	saved files	git documents	staging area/index
454	8	Git Pull is a combination of:	fetch and merge	0.5		fetch and merge	add and commit	branch and checkout	None of the above
455	8	What is version control?	a system that shows, tracks, and controls changes to a set of files over time	0.5		a type of architecture used to manage large databases	a system that shows, tracks, and controls changes to a set of files over time	a type of software that links a project with a GitHub repository	a programmatic design pattern used to manage code between multiple engineering teams
456	8	Git can be used for which project?	var fs=require("fs"); fs.writeFile("example.txt","" , (err)=>	0.5		Java enterprise project	.Net project	File version management	All of the above
457	8	The _____ command is a convenient way to set configuration options for defining the behavior of the repository, user information and preferences, git installation-based configurations, and many such things	var os=require("os"); console.log(os.hostname()); console.log(os.arch()); console.log(os.platform()); console.log(os.tmpdir());	0.5		git head	git conflict	git status	git config
458	8	A repository is a file structure where git stores all the project-based files.	TRUE	0.5		TRUE	FALSE	Can not say	None of these
459	8	What is the command to merge the current branch with the branch "new-email"?	git merge new-email	1		git add new-email	git commit -merge new-email	git merge new-email	None of the above
460	8	What is the command to add all files and changes of the current folder to the staging environment of the Git repository?	git add --all	1		git add	git add --all	git add --files	None of the above
461	8	What is the command to commit the staged changes for the Git repository?	git commit	1		git com	git save	git snapshot	git commit
462	8	What is the main command to push the current repository to the remote origin?	git push origin	1		git push origin	git merge remote	git remote push	git remote commit
463	8	What is the command to get all the change history of the remote repository "origin"?	git fetch origin	1		git origin help	git get log origin	git fetch origin	git status remote origin
464	8	Which of the following advantage of using GIT?	All of the above	1		Collaboration friendly	Data redundancy and replication	Version history and rollback capabilities	All of the above
465	8	Which command creates a copy of an existing git repository.	git clone	1		git copy	git clone	git replace	git move
466	8	What is the correct command to add FSD-2 repository for uploading files using gitbash from given options?	git remote add origin "https://github.com/ABCD/FSD-2"	1		git push origin master	git global add "https://github.com/ABCD/FSD-2"	git remote add origin "https://github.com/ABCD/FSD-2"	git commit -m "Saved"

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467	9	MongoDB can only receive _____ to insert in collection.	Both A & B	0.5		Array of JSON	Simple JSON	Simple object	Both A & B
468	9	_____ command lists all collections in a DB.	show collections	0.5		desc collections	list collections	select collections	show collections
469	9	_____ command lists all databases.	show dbs	0.5		list dbs	select dbs	show dbs	desc dbs
470	9	_____ command creates a collection in MongoDB.	db.createCollection("Collection_name")	0.5		db.createCollection("Collection_name")	create table table_name	db.create.collection("Collection_name")	db.Collection("Collection_name")
471	9	____ command deletes entire collection with all its documents.	db.collection_name. drop()	0.5		db.collection_name.drop()	db.collection_name.delete()	db.collection_name.truncate()	db.collection_name.cancel()
472	9	_____ command creates a new database or switches to existing database.	use	0.5		switch	use	apply	move
473	9	Identify the equialent NoSQL command of following SQL command: **create table student**	db.createCollection("student")	1		db.create("student")	db.createTable("student")	db.createDatabase("student")	db.createCollection("student")
474	9	Identify the equivalent NoSQL command of following SQL command: **drop table student**	db.student.drop()	1		db.student.drop()	db.student.delete()	db.student.truncate()	db.student.cancel()
475	9	drop() command returns _____.	Boolean value	1		JSON specifying {OK:1}	integer value	null value	Boolean value
476	9	You are working with a MongoDB collection named "sales" containing millions of documents. To optimize a specific query, you need to create a compound index on the "product_id" and "sale_date" fields. The "product_id" should be sorted in ascending order, and the "sale_date" should be sorted in descending order. Which of the following MongoDB commands correctly creates a compound index with the specified sorting order?	db.sales.createIndex({product_id: 1, sale_date: -1})	1	LJU 2023	db.sales.createIndex({product_id: 1, sale_date: -1})	db.sales.createIndex({product_id: -1, sale_date: 1})	db.sales.createIndex({product_id: 1}, {sale_date: -1})	db.sales.createIndex({product_id: -1}, {sale_date: 1})
477	9	you have a MongoDB collection named "students" containing information about various students. You want to retrieve a list of students whose names match any of the following: "CCC," "PPP," or "BBB." Additionally, you want to display the results in descending order based on their names. How would you write a MongoDB query to accomplish this task?	db.students.find({ name: { $in: ["CCC", "PPP", "BBB"] } }).sort({ name: -1 })	1	LJU 2023	db.students.find({ name: { $in: ["CCC", "PPP", "BBB"] } }).sort({ _id: -1 })	db.students.find({ name: "CCC" || "PPP" || "BBB" }).sort({ name: -1 })	db.students.find({ name: { $in: ["CCC", "PPP", "BBB"] } }).sort({ name: 1 })	db.students.find({ name: { $in: ["CCC", "PPP", "BBB"] } }).sort({ name: -1 })
478	9	Identify the equivalent NoSQL command of following SQL command: UPDATE lju SET status = "Active" WHERE age = 25 and name "ABC"	db.lju.updateMany({ age: 25,name:'ABC' }, { $set: { status: "Active" } })	1		db.lju.updateMany({ age: 25,name:'AB' }, { $set: { status: "Active" } })	db.lju.updateMany({ age: 25,name:'ABC' }, { $set: { status: "Active" } })	db.lj.updateMany({ age: 25,name:'ABC' }, { $set: { status: "Active" } })	db.lju.updateMany({ age: 25,uname:'ABC' }, { $set: { status: "Active" } })
479	9	Identify the equivalent NoSQL command of following SQL command: SELECT COUNT(*) FROM lju WHERE age > 30	Option 2 and option 4 are correct	1		db.lju.count({ age: { $lt: 30 } })	db.lju.find({ age: { $gt: 30 } }).count()	db.lju.find({ age: { $gte: 30 } }).count()	Option 2 and option 4 are correct
480	9	Convert this SQL query to MongoDB: "ALTER TABLE data ADD join_date DATETIME"	db.data.updateMany({ },{ $set: {join_date: new Date()}})	1		db.updateMany({ $set: {join_date: new Date()}})	db.data.updateMany({ },{ $set: {join_date: new Date()}})	db.data.updateMany({joindate;{$set: new Date()}})	db.data.updateOne({join_date;{$set: new Date()}})
481	9	State features of MongoDB.	var fs=require("fs"); fs.writeFile("example.txt","" , (err)=>{console.log(err);	2					

482	9	How MongoDB is called as document oriented database?	var os=require("os");
			console.log(os.hostname());
			console.log(os.arch());
			console.log(os.platform());
			console.log(os.tmpdir());
				2					

483	9	Define MongoDB cursor.		2					
484	9	Differentiate between RDBMS and NoSQL databases		3					
485	9	Explain create, drop and use commands in MongoDB with syntax.		3					
486	9	Why MongoDB is termed as NoSQL Database?		3					

Sr.No	unit_num ber	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
487	9	Map following SQL queries to MongoDB query: (1)SELECT * FROM USER WHERE status = "A" ORDER BY age DESC (2)UPDATE USER SET age = age + 3 WHERE status = "A" (3)SELECT * FROM USER WHERE status != "A"		3					
488	9	Create a collection name Student. Having fields name, age, std, percentage. 1)insert 3 random records in table. 2)find name of all student age>5. 3) update the std for all by 1. 4) arrange all the record of descending order of age 5)show all the name of student who is the oldest student of all records.		4					
489	9	Write query to perform following tasks on employee collection having fields name, age, position, salary. 1) Insert 3 documents with random data of having fields name, age, position, salary. 2) Count all employees where age is not equal to 35 and position is "Full Stack Developer". 3) Update position of all employees to "Software Developer" whose name is "XYZ" and age is equal to 31. If not such document available than insert the document with updated values. 4) Display position and name of the employee having lowest salary.		4					
490	9	Map following SQL queries to MongoDB query: (1) select age,name from employee where status="active" (2) select * from employee where status!="active" (3) select name from employee order by age desc (4)select * from employee where status="active" or age=50		4					

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
491	10	Identify correct command to list name and age of all students excluding _id field.	db.student.find({},{name:1,age:1,_id:0})	1		db.student.find({name:1,age:1})	db.student.find({name:1,age:1,_id:0})	db.student.find({},{name:1,age:1,_id:0})	db.student.find({},{name:1,age:1,_id:1})
492	10	1st and 2nd argument in find() command generally refers ____ & ____ respectively.	Condition & Projection	1		Projection & Condition	Condition & Projection	Condition & Selection	Condition & Join
493	10	Identify a correct query returning documents having a field surname occurring 6-10 letters only.	db.student.find({surname:{$regex:/^[A-Za-z]{6,10}$/}})	1		db.student.find({surname:{$regex:/[A-z]{6,10}/}})	db.student.find({surname:{$regex:/^[A-Za-z]{6,10}$/}})	db.student.find({surname:{$regex:/^\d{6,10}$/}})	db.student.find({surname:{$regex:/[A-Za-z]{6,10}/}})
494	10	Identify correct syntax to specify model() method	obj.model("collection_name",Schema_object)	0.5		obj.model(Schema object,collection_name)	obj.model("collection_name",Schema_object)	obj.model(collection_name)	obj.model(Schema object)
495	10	Identify correct query to increment age of all documents by 10.	db.test.updateMany({},{$inc:{age:10}})	1		db.test.updateMany({},{$set:{age:age+10}})	db.test.updateMany({},{$inc:{age:10}})	db.test.updateMany({$inc:{age:10}})	All of the above
496	10	_____property is used to remove leading and trailing spaces before/after a field of type string.	trim	0.5		remove_space	validate	trim	rm_space
497	10	Identify correct query to count no. of documents excluding age=2 and 21.	db.student.find({age : {$nin:[2,21]}}).count()	1		db.student.find({age:{$nin:[2,21]}}).count()	db.student.find({$and:[{age:{$ne:2}},{age:{$ne:21}}]})	db.student.find({$or:[{age:{$ne:2}},{age:{$ne:21}}]}).count()	db.student.find({$and:[{age:{$eq:2}},{age:{$eq:21}}]}).count()
498	10	_____ function is used to enable find() command on secondary server.	setReadPref()	0.5		setReadEnable()	setReadOn()	setReadTrue()	setReadPref()
499	10	____command is used to start a replica set.	rs.initiate()	0.5		rs.begin()	rs.initiate()	rs.start()	rs.continue()
500	10	Consider a collection student having documents like this: [{_id:123433,name: "SSS",age:22}, {_id:123434,name: "YYY",age:2}, {_id:123435,name: "PPP",age:22},] Let say **simple** indexing is applied on a student collection on age field and we fire following query. **db.student.find({age:22}).explain("executionStats")** Identify values of stage, docExamined and nReturned properties of JSON.	stage:IXSCAN, docExamined:2, nReturned:2	1		stage:IXSCAN, docExamined:2, nReturned:2	stage:IXSCAN, docExamined:3, nReturned:2	stage:COLLSCAN, docExamined:1, nReturned:1	stage:COLLSCAN, docExamined:1, nReturned:2
501	10	Consider a collection student having documents like this: [{_id:123433,name: "SSS",age:22}, {_id:123434,name: "YYY",age:2}, {_id:123435,name: "PPP",age:22},] Let say **compound indexing** is applied on a student collection on {age,name} field and we fire following query. **db.student.find({age:22}).explain("executionStats")** Identify values of stage, docExamined and nReturned properties of JSON.	stage:IXSCAN, docExamined:2, nReturned:2	1		stage:IXSCAN, docExamined:2, nReturned:2	stage:IXSCAN, docExamined:3, nReturned:2	stage:COLLSCAN, docExamined:1, nReturned:1	stage:COLLSCAN, docExamined:1, nReturned:2
502	10	Consider a collection student having documents like this: [{_id:123433,name: "SSS",age:22}, {_id:123434,name: "YYY",age:2}, {_id:123435,name: "PPP",age:22},] Let say **compound indexing** is applied on a student collection on {age,name} field and we fire following query. **db.student.find({name:"YYY"}).explain("executionStats")** Identify values of stage, docExamined and nReturned properties of JSON.	var fs=require("fs"); fs.writeFile("example.txt","" , (err)=> {console.log(err); });	1		stage:COLLSCAN, docExamined:3, nReturned:1	stage:COLLSCAN, docExamined:1, nReturned:1	stage:IXSCAN, docExamined:1, nReturned:1	stage:IXSCAN, docExamined:3, nReturned:1

503	10	By default indexing is always applied on _____ field.	var os=require("os");
			console.log(os.hostname());
			console.log(os.arch());
			console.log(os.platform());
			console.log(os.tmpdir());
				1		1st field of table	Last field of table	_id field maintained by default	All of the above

504	10	If we apply indexing, then searching is done through _____ data structure.	B-tree	0.5		Binary search tree	Array	Queue	B-tree
505	10	____ property is used to restrict values while defining schema of a collection.	enum	0.5		in	valid	enum	list
506	10	_____ command is used to delete a document by _id field and show it after deletion.	findByIdAndDelete()	0.5		findAndDelete()	findByIdAndDelete()	delete()	findByIdAndDrop()

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507	10	Identify correct command to update name field of all documents of a "test" collection.	db.test.updateMany({}, {$set:{name:"QQQ"}})	1		db.test.updateAll({name:{$set:"QQQ"}})	db.test.updateMany({name:{$set:"QQQ"}})	db.test.updateMany({$set:{name:"QQQ"}})	db.test.updateMany({}, {$set:{name:"QQQ"}})
508	10	Identify correct command equivalent to following SQL command: **delete from student**	db.student.deleteMany({})	0.5		db.sudent.deleteOne({})	db.student.deleteMany()	db.student.deleteMany({})	db.student.deleteAll()
509	10	Consider a collection "emp" having documents like this: [{_id:123433,name: "DDD",age:32}, {_id:123434,name: "BBB",age:20}, {_id:123435,name: "AAA",age:10},] Identify result of following query in cmd: **db.emp.find({},{name:1,_id:0}).skip(1)**	[{name:"BBB"}, {name:"AAA"}]	1		[{name:"DDD"},{name:"BBB"}]	[{name:"BBB"},{name:"AAA"}]	[{name:"BBB"},{name:"DDD"}]	[{name:"AAA"},{name:"DDD"}]
510	10	Consider a collection "emp" having documents like this: [{_id:123433,name: "DDD",age:32}, {_id:123434,name: "BBB",age:20}, {_id:123435,name: "AAA",age:10},] Identify the equivalent query, which will produce same result of following query. **db.emp.find({},{name:1,_id:0}).skip(1).limit(2)**	db.emp.find({}, {name:1,_id:0}).skip(1)	1		db.emp.find({}, {name:1,_id:0}).skip(2).limit(1)	db.emp.find({}, {name:1,_id:0}).limit(2)	db.emp.find({}, {name:1,_id:0}).skip(2)	db.emp.find({}, {name:1,_id:0}).skip(1)
511	10	_____ property inserts a new record, if record to be updated is not found, while firing update query.	upsert	0.5		modify	upsert	update	set
512	10	____ property returns recently updated record using findByIdAndUpdate() function.	new:true	0.5		new:false	new:true	upsert:true	$set:true
513	10	____ operator is used to exclude a list of values from a field during retrieval.	$nin	0.5		$in	$restrict	$nin	$set
514	10	Consider following student collection: [{_id:123433,name: "SSS",age:22}, {_id:123434,name: "ppp",age:2}, {_id:123435,name: "PPP",age:32},] **Identify result of following query:** db.student.find({name:{$in:["ppp","SSS"]}})	Returns only 2 records having names "ppp" & "SSS"	1		Returns all 3 records	Error in query as $in operator takes JSON, not array	Error in query as $in operator compares by $eq operator only	Returns only 2 records having names "ppp" & "SSS"
515	10	Given a MongoDB collection named products, you need to find documents where the "price" field is greater than or equal to 50. Which of the following queries should you use?	db.products.find({ price: { $gte: 50 } })	1		db.products.find({ price: { $gt: 50 } })	db.products.find({ price: { $gte: 50 } })	db.products.find({ price: { $lt: 50 } })	db.products.find({ price: { $lte: 50 } })
516	10	Consider a collection people having documents like this: [{_id:1, name:"Test1",age:22}, {_id:2, name:"Test2",age:21}, {_id:3 ,name:"Test3",age:20},] Let say simple indexing is applied on a student collection on age field and we fire following query: db.people.find({age:20}).explain("executionStats") Identify values of stage, docExamined and nReturned properties of JSON.	stage:IXSCAN, docExamined:1,nReturned:1	1		stage:IXSCAN, docExamined:2, nReturned:2	stage:IXSCAN, docExamined:3, nReturned:2	stage:IXSCAN, docExamined:1,nReturned:1	stage:COLLSCAN, docExamined:2,nReturned:1
517	10	What should be correct code to match a string beginning with "Bharat" only.	db.state.find({name:{$regex:/^Bharat/}})	1		db.state.find({name:{$regex:/Bharat+/i}})	db.state.find({name:{$regex:/Bharat/i}})	db.state.find({$regex:{name:/^Bharat/}})	db.state.find({name:{$regex:/^Bharat/}})
518	10	Consider the following query using $inc operator. Identify error/output. db.student.updateMany({$inc:{age:-8}})	Error, as filter condition must be specified in update() function.	1		Increments age value of all documents and returns modified count.	Increments age value of all, but modified count is not returned.	Error, as filter condition must be specified in update() function.	Same age value of all documents, as condition is not specified, but modified count is not returned.
519	10	Which is/are the correct query/ies to find eldest person from emp collection?	db.emp.find().sort({age:-1}).limit(1)	1		db.emp.find().sort({age:-1}).limit(1)	db.emp.find().sort({age:1})	db.emp.find().sort({age:1}).limit(1)	db.emp.findOne().sort({age:1})
520	10	Which of the following statements is true about the insertMany method in MongoDB?	It inserts multiple documents into a collection in a single operation.	1		It inserts multiple documents into a collection in a single operation.	It is used to delete documents from a collection.	It upsert a single document into a collection.	insertMany is only available in MongoDB Atlas, not in the open-source version.
521	10	Explain find() command with its syntax.		2					
522	10	Explain update() command with its syntax.		2					
523	10	Explain limit() & skip() command.		2					

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
524	10	**Write commands to perform following tasks on employee collection having fields name,age & joiningDate:** **(1)** Insert 3-4 records in collection. **(2)** List all employees who joined before 1st January, 2010. **(3)** Update the name of employee to "WWW" whose joiningDate is "05-05-2015"		3					
525	10	**Write commands to perform following tasks on employee collection having fields having name,age & joiningDate:** **(1)** Delete all records having joiningDate before 1st January, 2010. **(2)** List all employees having age>50 years. **(3)** List only 1st employee having age>60 years.		3					
526	10	**Write commands to perform following tasks on employee collection having fields name,age & joiningDate:** **(1)** Update the name="Senior citizen" having age>60 years. **(2)** Update the name="JKL" having age=20 years. Insert this record, if it is not found. **(3)** Retire all employees by deleting senior citizens from collection.		3					
527	10	**Write commands to perform following tasks on employee collection having fields name,age & joiningDate:** **(1)** Count no. of employees having age>=60 years. **(2)** List all employees in descending order of names having names "ABC", "PQR", "XYZ". **(3)** List all employees whose age lies between 25 to 50 years excluding all rest of the fields.		3					
528	10	**Map following SQL queries to MongoDB query:** **(1)** alter table people add joiningDate datetime **(2)** alter table people drop column joiningDate **(3)** select age,name from people where status="PH" **(4)** select * from people where status!="PH" **(5)** select name from people order by age desc		5					
529	10	**Map following SQL queries to MongoDB query:** **(1)** update employee set name="TTT" where age not in {12,33,44,55} **(2)** select count(*) from employee where age<>23 **(3)** update employee set age=age+10		3					
530	10	List out comparison operators in MongoDB and explain with example.		4					
531	10	Write an expess JS script to insert a document in database using Mongoose.		4					
532	10	Explain stepwise process to connect with Mongoose and insert a document.		3					
533	10	Explain use of Schema() and model() methods of JS with example.		3					
534	10	Create a schema using Schema() constructor having name, surname, age, active and date fields. Name must accept strings and it is a required field. Age must accept numeric values only. Active must accept true/false. Date should have default today's date if it is not entered.		4					
535	10	How can we enter multiple documents in a database using express JS?		3					
536	10	Consider following student collection: [{_id:123433,name: "SSS",age:22}, {_id:123434,name: "YYY",age:2}, {_id:123435,name:"PPP",age:32},] **Do as directed:** **(1)** Update name="JJJ" and age=40, where age=20 occurs. Insert new document, if record is not found. **(2)** To retrieve age and name fields of documents having names "YYY" & "SSS". Don't project _id field.		4					

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
537	10	Write a script to define a schema having fields like name,age,gender,email. **Apply following validations:** **(1)** name field must remove leading/trailing spaces,minimum and maximum length should be 3 & 10 respectively **(2)** age must accept a value from 1<=age<=100 only. **(3)** Perform Email ID validation on Email field. **(4)** gender must accept values in small letters only and allowed values are "male" & "female" only.		4					
538	10	Consider following student collection: [{_id:123433,name: "2DD", surname:"GGG", age:22}, {_id:123434,name: "LLL", surname:"RRR", age:2}, {_id:123435,name: "KKK", surname:"III", age:32} {_id:123436,name: "ZZZ", surname:"TTTT", age:9}] **Do as directed:** **(1)** List all students whose name starts by digit only. **(2)** List all students whose surname has exactly 4 letters only. **(3)** List only names of students from youngest to oldest. **(4)** List all students whose name has 3-10 letters only. Don't allow digits & underscore.		4					
539	10	Explain types of indexing with example.		4					
540	10	Write a node.js script to insert 4 documents simultaneously in a collection. Assume that schema is already created having name(string), surname(string), age(Number), active(Boolean) fields.		5					
541	10	Consider a collection student having documents like this: [{_id:123433,name: "DDD",age:32}, {_id:123434,name: "BBB",age:20}, {_id:123435,name: "AAA",age:10},] **Do as directed:** **(1)** Create an index & fire a command to retrieve a document having age>15 and name is "BBB". Stats must return values nReturned=1, docExamined=1, stage="IXSCAN". Perform required indexing. **(2)** Create an index on subset of a collection having age>30. Also write a command to get a stats "IXSCAN" for age>30.		4					
542	10	How COLLSCAN and IXSCAN differs in terms of indexing? How is it determined?		3					
543	10	Write a command to initiate 2 replicas in a replica set "rs1".		5					
544	10	What is the primary difference between updateOne() and findByIdAndUpdate() commands?		3					
545	10	What is the primary difference between deleteOne() and findByIdAndDelete() commands?		3					
546	10	How $regex operator is used to filter a specific values of a field. Explain with example.		3					

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
547	10	Write a node.js script to define a schema having fields like name,surname,email,password,city. Apply following validations: (1)name field must required . (2)surname must accept values in small letters. (3) Perform Email ID validation on Email field. (4) password must have minimum and maximum length should be 8 & 12 respectively (5)city allowed values are "baroda","surat" and "ahmedabad" only		5					
548	10	Create one login form having username , password and submit button . By clicking submit button username and password should be store inside database. Use mongoose and express module. write all necessary files		5					
549	10	Write a program using react and node/express to demonstrate a full stack connectivity. Take one textfield, submit button on react and insert a corresponding record in database via node/express script. Write required files.		5					
550	10	**Consider a collection student having documents like this:** [{_id:123433,name: "DDD",age:32}, {_id:123434,name: "BBB",age:20}, {_id:123435,name: "AAA BBB",age:10}] (**1**) Retrieve all records having "BBB" as a substring in name by indexing. Apply required indexing. Predict the values of nReturned & docsExamined properties also. (**2**) Create an index and fire a command to retrieve documents having age>15. Stats must return values nReturned=2 & docExamined=2, even though total 3 records are there.		5					
551	10	Create a React form which accepts Name,Rollno and totalmarks,on submitting the form it should be saved in data table inside MongoDB database named student.		5					
552	10	Create a form containing username and submit button using .html file.After clicking on submit button,insert value of username in the database.(Note: .html and .js file required)		4	LJU 2023				
553	10	Write a node.js script to define a schema having fields like name, age and gender Apply following validations: (1) name field must be required field with minimum and maximum length of 4 & 12 respectively (2) age must accept a value from 1<=age<=35 only. (3) gender must accept values in capital letters only and allowed values are "male" & "female" only.		3					
554	10	Write a script to have a "NAME" text field and a submit button in Form.js file. After clicking on submit button, insert that value of text field in database named 'mydb'. (React MongoDB Connectivity)		3					

Sr.No	unit_number	question_text	answer_text	marks	previous_year	option1	option2	option3	option4
555	10	Consider following citizens collection: [{_id:123433, name: "DD", surname: "abc", age:61}, {_id:123434, name: "LL", surname: "def", age:38}, {_id:123435, name: "KK", surname: "pqr", age:29} {_id:123436, name: "ZZ", surname: "xyz", age:62}] Insert above data in "userdata" collection under database named "maindata" and write a query to perform below task in node.js. (1)Insert a category field with value "SeniorCitizen" having age greater than 60. (2)Display total number of documents having age between 30 and 60 only.		5					
556	10	Consider collection named "movie" having documents like this: [{"title": "Inception", "director": "Christopher Nolan", "release_year": 2010}, {"title": "The Matrix", "director": "The Wachowskis", "release_year": 1999}, {"title": "The Avengers", "director": "Joss Whedon", "release_year": 2012,}] Do as directed: (1) Create a subset-based index that includes only movies released after the year 2000. Specify the field or condition used in the subset. Additionally, write a command to get a scan stage = "IXSCAN" for movie released after the year 2000 and give the values of nReturned and docExamined. (2) Generate indexing on director and release_year. Additionally, write a command to get movie released on or before the year 2010 and give the values of nReturned, docExamined and its scan stage.		5					
557	10	Write a node.js script to define a schema having fields like Firstname, age, email, citychoice and insert one random document having collection name "applicant" under "applicantdata" database. Apply following validations: (1) Firstname field must remove leading/trailing spaces, minimum and maximum length should be 3& 10 respectively. (2) aplicant's age must be between 18 to 30. (3) Perform Email ID validation on email field. (4). citychoice must accept values in capital letters only and allowed values are "AHMEDABAD", " PUNE" & " BANGALORE " only.		5					
558	10	Consider following faculty collection: [{_id:123456788, name: "ABC", subject: "FSD-2", age:27}, {_id:123456789, name: "PQR", subject: "PYTHON-2", age:31}, {_id:123456790, name: "XYZ", subject: "FSD-2", age:29}] Write a query for following: (1) Update name= "DEF" & age= 32, where subject= "JAVA-2". Insert new document, if record is not found. (2) Retrieve only name & age of documents having age greater than 28 & less than equal to 30.		2					
559	10	Write a node.js script to define a schema having fields like name & age. Apply following validations: (1) Name field must remove leading/trailing spaces, must accept values in lowercase, allowed values are "abc", "def", "pqr", "xyz" & maximum length should be 10. (2) age must accept a value from 1<=age<=100 only.		3					