

**L.J Institute of Engineering and Technology, Ahmedabad.**  
**Full Stack Development-2 (FSD-2) Question Bank (SEM-IV )**

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Sr.No	chapter _numb er	question_text	answer_text	marks	option1	option2	option3	option4
1	1	In the JSON syntax, data is separated by ____.	3	0.5	Semicolons	Colons	Commas	Hyphens
2	1	Which is the correct example of a JSON object with name, age, and city?	1	0.5	{ "record": {"name": "XYZ" , "age": 21, "city": "Ahmedabad"} }	{ "record"= {"name": "XYZ" , "age": 21, "city": "Ahmedabad"} }	{ "record": {"name": XYZ, "age": 21, "city": Ahmedabad} }	record : {"name": "XYZ", "age": 21, "city": "Ahmedabad"}
3	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	3	1	2,3	3,4	3 only	5 only
4	1	Identify the output: var jsonObj= { name:"abc", birth:"1991-05-30" }; jsonObj=JSON.stringify(jsonObj); jsonObj=JSON.parse(jsonObj); console.log(jsonObj.birth);	1	1	console.log(person.emplo yee[0].weekly_lec.length) ;	console.log(person.emplo yee[0].weekly_lec.length( ));	console.log(person.emplo yee.weekly_lec[0].length) ;	console.log(person.emplo yee[1].weekly_lec.length) ;
5	1	const user={ "name": "abc", "age": "28", "course": ["FSD-1", "DE", "FSD-2"], "adress": ["T1", "t2", {"t3": "Give again"}] } console.log(user.name[0]) console.log(user.age) console.log(user.course) console.log(user.adress[1]) console.log(user.adress[2]) console.log(user.adress[2].t3)	3	1	abc 28 (3) ['FSD-1', 'DE', 'FSD- 2'] t2 { 'Give again'} Give again	abc 28 (3) ['FSD-1', 'DE', 'FSD- 2'] t2 t3: Give again Give again	a 28 (3) ['FSD-1', 'DE', 'FSD- 2'] t2 {t3: 'Give again'} Give again	abc 28 (3) ['FSD-1', 'DE', 'FSD- 2'] t2 {t3: 'Give again'} Give again
6	1	How do you represent a JSON array of strings?	4	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" ] }
7	1	Which of the following code will throw an error?	1		JSON.parse(undefined);	JSON.parse(null);	JSON.parse('{"name": "X YZ", "age": 30, "city": "Ahmedabad"}');	JSON.parse(0);

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8	1	Which of the following JSON values cannot be one of the following data types	3	0.5	a number	a string	a function	<i>null</i>															
9	1	JavaScript has a _____ built in function for converting an object into a JSON string:	2	0.5	JSON.parse()	JSON.stringify()	JSON_Parse ()	JSON_Stringify()															
10	1	JavaScript has a _____ built in function for converting JSON strings into JavaScript objects	1	0.5	JSON.parse()	JSON.stringify()	JSON_Parse ()	JSON_Stringify()															
11	1	The extension and MIME type for JSON text is	1	0.5	.json & application/json	.js & application/json	.json & text/js	.js & text/json															
12	1	What will be the output of following code var obj= { "employee" : { "name" : "John", "age" : 30, "city" : "New York" } } console.log(employee)	3	1	{ "name" : "John", "age" : 30, "city" : "New York" }	"employee" : { "name" : "John", "age" : 30, "city" : "New York" }	Error	Undefined															
13	1	What will be the output of following code var obj= { "employee" : { "name" : "John", "age" : 30, "city" : "New York" } } console.log(obj.name)	2	1	{ "name" : "John", "age" : 30, "city" : "New York" }	undefined	Syntax error	John															
14	1	Write a script of JSON array containing objects and display the same in console.		2																			
15	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																			
16	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																			
17	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																			
18	1	Write a JSON scri <table border="1"><tr><th colspan="3">Division -A</th></tr><tr><th colspan="3">Student Detail</th></tr><tr><th>Name</th><th>Number</th><th>Subject Opted</th></tr><tr><td>ABC</td><td>1</td><td>[FSD, Python, DE]</td></tr><tr><td>XYZ</td><td>2</td><td>[FSD, Python, DE]</td></tr></table> n loop as per table.	Division -A			Student Detail			Name	Number	Subject Opted	ABC	1	[FSD, Python, DE]	XYZ	2	[FSD, Python, DE]		3				
Division -A																							
Student Detail																							
Name	Number	Subject Opted																					
ABC	1	[FSD, Python, DE]																					
XYZ	2	[FSD, Python, DE]																					
19	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																			
20	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																			
21	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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22	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 written to the file. At last, both division objects should be visible with names sorted alphabetically in file.		5				
23	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				
24	1	Write one JSON string with date property (yyyy-mm-dd) and print date in India standard time.		5				
		<b>Unit-2: Node JS-1</b>						
26	2	Which of the following is an advantage of using Node.js?	D		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
27	2	Which function is used to include modules in Node Js.	B		include();	require();	attach();	None of the above
28	2	Which of the following shortcut command is used to kill a process in Node.js?	D		Ctrl + B	Ctrl + K	Ctrl + T	Ctrl + C
29	2	Which of the following is true about fs module of Node?	C		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
30	2	Which of the following statements are true?	A		js is Server Side Language.	js is the Client Side Language.	js is both Server Side and Client Side Language.	None of the above.
31	2	What will be output of following code? var t=5; do{ t++; console.log(t); }while(t<=10);	A		6 7 8 9 10 11	5 6 7 8 9 10	6 7 8 9 10	5 6 7 8 9 10 11
32	2	_____ is an interactive shell that processes Node.	B		REAL	REPL	RESP	RPEL
33	2	How can we install the node body-parser module?	A		npm install body-parser	node install body-parser	node.js install body-parser	npm install body parser
34	2	Underscore (_) variable in REPL session of NodeJS is used for?	C		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

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35	2	Which statement is true for following code? <pre>function myFunc(arg) {   console.log(`arg was =&gt; \${arg}`); }  setTimeout(myFunc, 1000,'funky');</pre>	D		arg was => funky , will show 1000 times after the program run	arg was => funky , will show till 1000 miliseconds after the program run	arg was => funky , will show immediately the program run	arg was => funky , will show after 1 second of program run
36	2	Which statement is true for following code? <pre>setInterval(() =&gt; {console.log('HELLO GEEK');}, 1000);</pre>	D		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
37	2	Identify the correct code which produces following output. <pre>D:/ABC/DEMO .txt abc.txt</pre>	B		<pre>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);</pre>	<pre>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);</pre>	<pre>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);</pre>	<pre>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);</pre>
38	2	Which of the following is used to create a new HTTP server in Node.js?	A		http.createServer()	http.createServer	http.newServer()	http.newServer
39	2	In REPL mode, Identify the correct code which produces following output. <pre>13</pre>	A		<pre>&gt; var a=7 &gt; var b=6 &gt; a+b</pre>	<pre>&gt; var a=7 &gt; var b=6 &gt; print a+b</pre>	<pre>&gt; var a=7, b=6 &gt; print a+b</pre>	<pre>&gt; var a=7 b=6 &gt; a+b</pre>
40	2	Generally , Node.js runs	B		single-threaded and blocking program	single-threaded,non-blocking and asynchronous program	multi-threaded,non-blocking and asynchronous program	multi-threaded,blocking and asynchronous program
41	2	Identify the equivalent code of given code snippet which produces same Output. <pre>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]);</pre>	D		<pre>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);</pre>	<pre>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);</pre>	<pre>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));</pre>	<pre>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);</pre>
42	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.						

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43	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.						
44	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.						
45	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						
46	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.						
47	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.						
48	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.						
49	2	Write a node.js script to write contents to the file in original manner. Delete file after finishing writing						
50	2	Write a program to demonstrate various methods of path module in Node.js.						
51	2	Write a node.js script to jump on a specific code by specifying path on address bar of browser.						
52	2	Write a program to demonstrate various methods of os module in Node.js.						
		<b>Unit-3 Node JS-2</b>						
53	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
54	3	_____ function of chalk module is used to give red background to console text.	bgRed()	0.5	red()	bgRed()	bgred()	backgroundRed()
55	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
56	3	Identify the correct validator module to validate correct email address.	isEmail()	0.5	isEmail()	isemail()	isMail()	ismail()
57	3	Which method is used to bind connection event with its handler?	on()	0.5	emit()	on()	event()	listeners()



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58	3	Which of the following code is correct to export own module to other .js file?	<pre>const add=(a,b)=&gt; {   return(a+b); } const div=(a,b)=&gt; {   return(a/b); } module.exports s.a=add; module.exports s.d=div;</pre>	1	<pre>const add=(a,b)=&gt; {   return(a+b); } const div=(a,b)=&gt; {   return(a/b); } module.exports.a=add; module.exports.d=div;</pre>	<pre>const add=(a,b)=&gt; {   return(a+b); } const div=(a,b)=&gt; {   return(a/b); } module.exports=add; module.exports=div;</pre>	<pre>const add=(a,b)=&gt; {   return(a+b); } const div=(a,b)=&gt; {   return(a/b); } module.exports=[add,div] ;</pre>	<pre>const add=(a,b)=&gt; {   return(a+b); } const div=(a,b)=&gt; {   return(a/b); } module.export.a=add; module.export.d=div;</pre>
59	3	Which keyword is used to make properties and methods available outside the module file?	exports	0.5	import	module	exports	require
60	3	Which of the following is true about process global object?	All of the above	0.5	process emits uncaughtException when an exception bubbles all the way back to the event loop.	process emits exit event when process is about to exit.	The process object is an instance of EventEmitter.	All of the above
61	3	Which of the following module is required to create a web server?	url module	0.5	http module	url module	net module	net module
62	3	Which of the following operations can we do with the NodeJS events module?	All of the above	0.5	Fire	Listen for	Create	All of the above
63	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
64	3	Which of the following are the benefits of using modules?	All of the above	0.5	Provides a means of resuing program codes.	Provides a means of dividing up tasks.	Provides a means of testing individual parts of a program.	All of the above
65	3	Which NodeJS object specifies the name of the directory which contains the code?	__dirname	0.5	Buffer	__filename	__dirname	None of above
66	3	What function is used to fire an event?	emit()	0.5	fire()	calc()	listner()	emit()
67	3	How to make node modules available externally?	module.exports	0.5	module.spread	module.exports	module.expose	module.divide
68	3	Which module variable holds the resolved absolute path of the current module file?	__filename	0.5	__filename	__pathname	__location	__flder
69	3	What are the arguments passed to the module wrapper function?	exports, require, module, __filename, __dirname	1	exports, process, require, module, __filename, __dirname	exports, require, module, __filename, __dirname	exports, __filename, __dirname	exports, module, __filename, __dirname
70	3	What can you export with module.exports?	functions, objects, arrays, or anything you assign to the module	0.5	only objects	only variables and arrays	only functions	functions, objects, arrays, or anything you assign to the module

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71	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.
72	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
73	3	What will this code log to the console? // File: student.js exports = "ABC";  // File: index.js const s = require('./student.js'); console.log(s);	{ }	0.5	ABC	Undefined	{ }	{'ABC'}
74	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				
75	3	Write a node.js script to print query string of URL on console as well as on file using ES6 Callback.		5				
76	3	Write a node.js script to load a simple.html file on nodejs web server & prints its contents as an html content.		5				
77	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				
78	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				

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79	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				
80	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				
81	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				
82	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				
83	3	Explain node js own module with suitable example. Write necessary js file.		4				
84	3	Explain the purpose of module.exports.		3				
85	3	What do you understand by an Event Emitter in Node.js?		2				
86	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				
87	3	Explain URL module with appropriate example.		5				
88	3	What do you mean by QueryString?		2				
89	3	Create an event emitter instance and register a couple of callbacks.		3				
90	3	Explain node js events with appropriate example with all event methods.		5				
91	3	Write a node js script to demonstrate Chalk module.		3				
92	3	Explain validator in NPMjs.		2				
93	3	How JSON processing is done in node js? Explain with suitable example.		5				