1. What is Javascript.

1. How Borwser Execute Javascript.
2. What are features of Javascript.
3. What is DOM ?
4. How to perform click event on Dom Using Javascript
5. What is alert() and confirm() ?
6. What is difference between undefined and null
7. What is difference between == and ===
8. What is function . Can we overload function in javascript.
9. Function Statement v/s Function Expression.
10. What is callback ? Explain with suitable example.
11. What is promise? What are advantage of promise over callback.
12. What is callback hell.
13. What is closure ?
14. What is IIFEs(Immediately Invoked Function expression).
15. What is annonymous function ?
16. What is hoisting in javascript.
17. What is difference between var, let and const keyword.
18. Explain use strict
19. What is event bubbling and event capturing
20. What are the primitive datatype in javascript
21. What are different types of popup boxes available in javascript
22. What will happen if an infinite while loop is run in javascript
23. List HTML DOM mouse events

onclick,ondblclick, onmouseover, onmouseout, onmouseup,onmousemove

1. How to get the last index of a string in javascript lastIndexOf
2. Describe negative infinity in javascript
3. Explain await and aync ? How to use await and async?
4. How to handle the excption in javascript.
5. Promise.all v/s Promise.allSettled()
6. Explain Promise chaining
7. call v/s bind v/s apply
8. How to create Object in javascript ?
9. How to create clone of object in javascript ?
10. Shallow copy v/s Deep copy
11. JSON ?
12. AJAX ?
13. Spred Operator v/s Rest Operator
14. What is Node.js? Explaing the advantage of Node.js Over java and php
15. What are the limitation of Node.Js
16. How Node.Js Works
17. How Node.js is single threaded
18. Explain any five built-in package/Dependency name in node.js
19. What is module in node.js
20. what is Module.exports
21. How to create server in node.js
22. How node.js handle multiple request
23. How to use url module in node.js
24. What is setInterval, setTimeout
25. What is \_\_dirname and \_\_filename
26. What is synchronous/Blocking and Asynchronous/Non-blocking code in node.js
27. What is file system in node.js
28. What are the differenct type of flag using in node.js
29. What is stream in node.js? Explain the types of stream
30. How to pipe stream in node.js
31. What is request and response in node.js
32. What is package.json and package.lock
33. What is npm ? How to install dependency/module at application level and Environment elevel
34. How do you manage packages in your node.js project
35. How Node.js is better then other framework
36. What are the some commonly used timing features of Node.js
37. What is fork in node.js
38. How do you create a simple server in node.js that return hello world
39. How many types of API functions are there in node.js
40. What is REPL and how to use it?
41. What is purpose of module.exports.
42. What is an event-loop in Node.js
43. If Node.js is single threaded then how does it handle multiple request/ concurrency
44. Differenctiate between process.nextTick() and setImmediate()
45. What is node.js stream
46. What is middleware
47. Explain what a reactor pattern in node.js
48. Describes the exit code of Node.js
49. What is an EventEmitter in node.js
50. What is a thread pool and which library handles it in node.js
51. What is purpose of NODE\_ENV
52. How would you connection mongodb database to node application
53. What are different type of http request
54. What is difference between get and post
55. What is query string and how to send the data in get request
56. What is the use body parser
57. How to set the path of static file in express
58. What are types of Middleware in express ? Explain with suitable example
59. Does order of middleware matters in express.
60. What is express.js
61. What are some distinctive features of Express
62. is Express.js fron-end or backend framework?
63. Why do we use express.js
64. What is difference between express.js and node.js
65. What do you understand by Scaffolding in Express.Js
66. Which are the argument available to an Express.Js route handler function
67. How can you allow CORS in Express.jS?
68. How can you deal with Error handling in Express.js? Explain with an example
69. Write a code to start serving static file Express.JS
70. How can we render plain HTML in express
71. How can we send the data while rendering page in express
72. How to enable debugging in express app?
73. What is routing and How routing works in express
74. How dynamic routing works in express.js

Database :-

1. What do you understand by term database ?
2. Define DBMS
3. Define RDBMS
4. What are various type of relationships in database? define them
5. Explain normalization
6. What are different types of normalization?
7. What is SQL ?
8. How many SQL statement used ? Define them
9. Enlist some commands of DDL , DML and DCL
10. Explain the term record, field and table in database
11. What is view in database
12. What are advantage and disadvantage of view?
13. Define Entity , Entity Type and Entity Set
14. Define a weak entity set
15. What do you undestand by join ? Explain different types of Join
16. What is self join
17. Explain Primary key, Foreign key, unique key, composite key, super key
18. What is projection in database?
19. What is difference between delete, truncate and drop command
20. Based on given table, solve the following query ?
21. Employee table



a) Write the SELECT command to display the details of the employee with empid as 1004.

b) Write the SELECT command to display all the records of table Employees.

c) Write the SELECT command to display all the records of the employee whose name starts with the character ‘R’.

d) Write a SELECT command to display id, age and name of the employees with their age in both ascending and descending order.

e) Write the SELECT command to calculate the total amount of salary on each employee from the below Emp table.

22.What is mongodb ? What are advantage of mongodb

23.What is difference between SQL and NoSQL database

24.What is document in mongodb?

25.What is collection in mongodb

26.What is mongo shell

27.What are some features of mongodb

28.How to add data in mongodb ?

29.How do you update data in mongodb

30.How do you delete document

31.How to perform query in mongodb

32.What are datatypes in mongodb

33.What is index and how to create index in mongodb

34.Explain the set modifier in mongodb

35.Does mongodb support primary key and foreign key relationship ?

36.Explain the structure of ObjectId in mongodb

Ans :-ObjectID is a 12-byte BSON type. These are:

4 bytes value representing seconds

* 3 byte machine identifier
* 2 byte process id
* 3 byte counter

Is it true that MongoDB uses BSON to represent document structure?

### 37.What are Indexes in MongoDB?

In MondoDB, Indexes are used to execute query efficiently. Without indexes, MongoDB must perform a collection scan, i.e. scan every document in a collection, to select those documents that match the query statement. If an appropriate index exists for a query, MongoDB can use the index to limit the number of documents it must inspect.

### 38.By default, which index is created by MongoDB for every collection?

In-which language mongodb is writtern ?

### 39.What will happen when you remove a document from database in MongoDB? Does MongoDB remove it from disk?

40.What is capped and uncapped collection in mongodb

41.What is lookup in mongodb

42.How to get record of second max age record from mongodb collection

43.What is mongoose ?

44.What is mongoose Schmea

45.How to set reference in mongoose Schema

46.How populate works in mongoose ?

47.List the name of the mongoose method to perform CRUD operation

48.What is default connction pool size in mongoose

49.How to set connection pool size in mongoose

50.What is connection pool and what are advantage of using connection pool size