# Table of Contents:

1. Basic Javascript concepts:
   1. Arrays and its methods like forEach, map, filter, reduce.
   2. Objects, constructors and Prototypes
   3. Asynchronous nature of Javascript
   4. Closures
   5. Variable Hoisting
   6. Callbacks and Callback-hell
   7. Promises and their advantage over nested callbacks
   8. Async-await.
   9. Memory management
2. ES6 concepts:
   1. Arrow functions
   2. Spread operator
   3. Destructuring
   4. Let and const keywords
   5. Map and set
   6. Classes
3. Node JS concepts:
   1. Event loop and its different phases
   2. Single-threaded mechanism of NodeJS
   3. NPM and its use
   4. Modules
   5. Framework in nodejs like ExpressJS
   6. Middlewares
   7. REST api using NodeJS and ExpressJS.
   8. Event emitter
   9. Processes and child-processes.

# Questions to ask:

1. What are the different ways to declare variable in Javascript?
2. What’s the difference between these types of declarations?
3. What are map, filter and reduce methods of JS arrays?
4. How to define a constructor in JS?
5. What are closures? What is their practical use in a web application?
6. What are arrow functions and what are the differences between normal ES5 function and arrow function?
7. What is the difference between setTimeout and setInterval?
8. How to stop a setInterval from running indefinitely?
9. What are Promises and how they can solve callback-hell problem?
10. What is Promise.all and Promise.race?
11. What is asyn-await and how are they different from Promises?
12. Is NodeJS based on single-threaded or multi-threaded mechanism?
13. What is event loop and how does it work?
14. How multiple I/O requests are served by NodeJS?
15. In which phase does setTimeout work?
16. What are various types of modules in NodeJS?
17. What are middlewares and how to create and use one in nodejs?
18. How to use ExpressJS for implementation of REST api in nodejs?
19. What is an event emitter? Can we have more than one handlers for same event?
20. How to read an input and output using process?
21. What kind of Authentication mechanism is used in your NodeJS application?
22. How do you connect to database (sql or non-sql) in your NodeJS app?