

FULL STACK DEVELOPMENT (ASSIGNMENT-1)

SET-1 [ROLLNO'S: 501 TO 518]

1. What are the basic components of web development architecture? explain.
2. write a Node JS program to read form data from query string and generate response using NodeJS.
3. Discuss about http request, response and server objects in detail? Describe the basic steps to create a simple HTTP server with a working example.
4. Describe the Node.js event model. Provide an example of how it handles asynchronous operations in a web server environment.
5. Discuss about data types, collections and documents in MongoDB.

SET-2 [ROLLNO'S: 519 TO 536]

6. Explain the basic components of a web development framework with respect to Node.js and Angular stack components. Discuss how they interact within a full stack application.
7. Discuss how Node.js interacts with the file system. Explain how to perform basic file operations such as reading, writing, opening, and closing files, with examples.
8. Describe how to work with JSON in Node.js. Provide an example of reading a JSON file and parsing its content.
9. Explain the following modules a)os b)util
10. Differentiate NoSQL and MySQL.

SET-3 [ROLLNO'S: 537 TO 557]

11. What is the need of call back functions? Explain with suitable example.
12. Discuss functions and objects in java scripts.
13. Explain the concept of buffers in Node.js. How do you create, write, and read from buffers?
14. Discuss about URL module in NodeJS.
15. Explain the advantages of using NoSQL databases like MongoDB over traditional relational databases.

SET-4 [ROLLNO'S: 558 TO 577]

16. Compare Event Callbacks and Threaded model.
17. What are streams in Node.js? Describe the different types of streams with examples
18. Difference between synchronous and asynchronous file system calls in Node.js. What are the advantages and disadvantages of each?
19. Describe the process of creating, exporting, and importing a custom module in Node.js.
20. Explain the following modules a)dns b)crypto