Fergusson College (Autonomous), Pune
Department of Computer Science
M.Sc. CS –I
Semester II
CSC 551 Full Stack II MERN Stack.

Sample Questions

1. What is an event in react js?
2. Write a note on useState( ) in ReactJS?
3. Explain the methods used by react to render HTML.
4. State the advantages of using JSX in React.
5. Explain React Component lifecycle methods in detail.
6. Differentiate between react hook and class component.
7. Explain the elements used for routing by react.
8. How can you embed two or more components into one?
9. What are the different phases of React component's lifecycle?
10. What is an arrow function and how is it used in React?
11. How do you update the state of a component in react?
12. Write a note on document oriented databases.
13. Describe data modelling in MongoDB.
14. What is collection in MongoDB?
15. Describe the 'option' field used in CreateCollection ( ).
16. Write a note on insert operation in MongoDB.
17. Explain the process of removing an entry from the collection.
18. Illustrate with an example the process of querying a document.
19. State and explain the different comparison operators supported by MongoDB.
20. Write a note on Projection Query in MongoDB.
21. Write a note on data types in MongoDB.
22. State and explain different ways provided by MongoDB to perform aggregation.
23. Explain the "Indexing" in MongoDB.
24. State and explain the CRUD operations in MongoDB with an example.
25. What is a Document in MongoDB? How to create multiple documents?
26. What are some utilities for backup and restore in MongoDB?
27. State the purpose of using $regex operator in MongoDB with an example.
28. Explain how replication works in MongoDB?
29. State and explain different ways provided by MongoDB to perform aggregation.
30. Write a note on limitation associated with indexing in MongoDB.
31. How does replication help in MongoDB?
32. What are Shards? Define Sharding.
33. Write a note on Data Backup and restore in MongoDB.
34. State the advantages and disadvantages of Express.js.
35. List down the features of Express.js.
36. List various types of middleware used in Express.js.
37. Write a note third party middleware.
38. Write a note on Express.js middleware.

39. Write a note on session management in Express.js.
40. Write a note on Expree.js routing.
41. Explain how Express.js uses debug module.
42. Explain the purpose of using Template engine in Express.js.
43. Write a note on Jade Template engine.
44. Explain the of concept of error handling in Express.js.
45. List the different template engines. Explain any one of them with an example.
46. How Node.js handles file request?
47. State and explain Node.js process model in detail.
48. Describe the process of creating a ow module in Nodejs.
49. State the purpose of exporting a function as a class.
50. What is the built in module used in node.js? Explain the same in detail.
51. Explain with an example, how node.js can be used as a web server.
52. Write a note on file system module in node.js.
53. State the different methods used for debugging a node.js application.
54. Write a note on node inspector in node.js.
55. Describe buffers with example in node.js.
56. Write a note on Streams in node.js.
57. Write a note on Nodemailer module in node.js.
58. Explain the method used to split the query string in nodejs.
59. State the advantages of react native.
60. Explain different threads in react native app.
61. Differentiate between React JS and React Native.
62. Write a note on react native props and state.