|  |  |  |
| --- | --- | --- |
| **P.V.P SIDDHARTHA INSTITUTE OF TECHNOLOGY** | | |
| **BRANCH : Computer Science & Engineering** | | **REGULATION : PVP20** |
| **Course: B. Tech** | **SUBJECT : MERN STACCK DEVELOPMENT** | |
| **Subject Code: 20CS3603** | | **Year and Semester: III & II** |
| **QUESTION BANK** | | |

**UNIT I**

|  |  |  |  |
| --- | --- | --- | --- |
| **Q. NO.** | **QUESTION** | **CO** | **LEVEL** |
| 1 | Illustrate Basic Web Development Framework | CO1 | 3 |
| 2 | Illustrate Node.js-to-Angular Stack Components. | CO1 | 3 |
| 3 | Apply looping and functions to display Multiplication Table | CO1 | 3 |
| 4 | What are the approaches to manipulate strings objects | CO1 | 3 |
| 5 | Demonstrate various Methods to manipulate Array objects | CO1 | 3 |
| 6 | Build simple application using HTML, CSS and JS | CO1 | 3 |
| 7 | How Error Handling is done in JavaScript with suitable examples. | CO1 | 3 |
| 8 | Illustrate how to throw your own Errors in JS with example | CO1 | 3 |
| 9 | Demonstrate Anonymous Functions in JS | CO1 | 3 |
| 10 | Explain java script built in objects with suitable examples. | CO1 | 3 |

**UNIT II**

|  |  |  |  |
| --- | --- | --- | --- |
| **Q. NO.** | **QUESTION** | **CO** | **LEVEL** |
| 1 | How to Publishing a Node.js Packaged Module to the NPM Registry. | CO2 | 3 |
| 2 | How would you search for Node Package Module? | CO2 | 3 |
| 3 | Illustrate the Directives used in the package.json file | CO2 | 3 |
| 4 | Build simple Node.js Packaged Module? | CO2 | 3 |
| 5 | Illustrate the Member functions of the console module with suitable examples. | CO2 | 3 |

**Course Coordinator**

Dr P Sai Kiran -

B Vishnu Vardhan -

Y Ayyappa - **HOD**

|  |  |  |  |
| --- | --- | --- | --- |
| 6 | Demonstrate the built-in modules in Node.js . | CO2 | 3 |
| 7 | How would you publish a Node.js Packaged Module in NPM | CO2 | 3 |
| 8 | Make use of Packaged Module to build application in Node.js | CO2 | 3 |
| 9 | Implement Node JS Packaged Module | CO2 | 3 |
| 10 | How would you write data to the console in Node.js | CO2 | 3 |

**UNIT III**

|  |  |  |  |
| --- | --- | --- | --- |
| **Q. NO.** | **QUESTION** | **CO** | **LEVEL** |
| 1 | Explain how to Process URL | CO2 | 3 |
| 2 | How will you resolve URL Components | CO2 | 3 |
| 3 | Explain Request, Response and server objects | CO1 | 2 |
| 4 | Demonstrate how to implement HTTPS Server and Clients | CO2 | 3 |
| 5 | Explain how to configure Express server | CO2 | 2 |
| 6 | Explain how to configure routers | CO2 | 3 |
| 7 | Build program in Node JS on how to parse URL | CO2 | 3 |
| 8 | How would you check the status of Request/Response Object in Node JS? | CO2 | 3 |
| 9 | How would you apply routing to client requests | CO2 | 3 |
| 10 | Demonstrate Dynamic GET Servers in Node JS | CO2 | 3 |

**UNIT IV**

|  |  |  |  |
| --- | --- | --- | --- |
| **Q. NO.** | **QUESTION** | **CO** | **LEVEL** |
| 1 | Explain REACT DOM? | CO1 | 2 |
| 2 | Explain REACT Components? | CO1 | 2 |
| 3 | Build simple React Application? | CO3 | 3 |
| 4 | Build Forms using REACT Components | CO3 | 3 |
| 5 | Explain the how to process a requested data | CO1 | 2 |

**Course Coordinator**

Dr P Sai Kiran -

B Vishnu Vardhan -

Y Ayyappa - **HOD**

|  |  |  |  |
| --- | --- | --- | --- |
| 6 | Briefly explain REACT Hocks and Router | CO1 | 2 |
| 7 | Demonstrate Interactive React JS Components? | CO3 | 3 |
| 8 | Use React Elements to build hide and show | CO3 | 3 |
| 9 | Demonstrate how to Handle Promise | CO3 | 3 |
| 10 | Demonstrate how To Handle Routing in React Apps with React Router | CO3 | 3 |

**UNIT V**

|  |  |  |  |
| --- | --- | --- | --- |
| **Q. NO.** | **QUESTION** | **CO** | **LEVEL** |
| 1 | Explain Collection and Documents in MongoDB | CO1 | 2 |
| 2 | Explain MongoDB Data Types? | CO1 | 2 |
| 3 | Briefly explain steps in Initializing, Starting and Stopping MongoDB | CO1 | 2 |
| 4 | Explain MongoDB Shell commands and methods | CO1 | 2 |
| 5 | Explain how would you add MongoDB Driver to Node.js | CO4 | 3 |
| 6 | Demonstrate a simple application on Manipulating Data in MongoDB | CO4 | 3 |
| 7 | Make use of MongoDB Collections to insert the record | CO4 | 3 |
| 8 | Make use of MongoDB Insert & Query Document to a Collection | CO4 | 3 |
| 9 | Demonstrate how to use How To Use the MongoDB Shell | CO4 | 3 |
| 10 | Make use of Mongo Client Object to Connect MongoDB from Node.js | CO4 | 3 |

**Course Coordinator**

Dr P Sai Kiran -

B Vishnu Vardhan -

Y Ayyappa - **HOD**