

(3 Hours)

(Total Marks: 80)

- N.B.:**
- 1. Question No.1 is compulsory.**
  - 2. Answer any three out of the remaining questions.**
  - 3. Assume suitable data if necessary.**
  - 4. Figures to the right indicate full marks.**

- Q1.**
- Explain HTTP and HTTPS protocol (10)
  - You have been tasked to develop software for Hotel management. How will you divide functionality between the front end, back end, and database (10)
- Q2.**
- Explain different types of components in React JS with an example. (10)
  - Write a program in ReactJS to print "Hello World" on the browser. (10)
- Q3.**
- Explain the Event loop in Javascript (10)
  - With an example demonstrate the use of promise. (10)
- Q4.**
- Write a Node JS program for following: (10)
    - Create a new file and add data into it.
    - Append more data in the same file at the end of existing data.
    - Read the file data without getting the buffer data.
    - Rename the file.
    - Delete the file.
  - Explain event handling in Nodejs (10)
- Q5.**
- Explain routing in Express JS along with an example. (10)
  - Give a difference between XML and JSON (10)
- Q6.** Short note on: (Any 4) (20)
- REPL
  - React Props
  - JSX
  - Cookies
  - Session

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