

03/06/2025 TE IT SEM-V C-SCHEME IP QP CODE: 10084649

(3 Hours)

(Total Marks: 80)

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

Q1. a) Explain the difference between State and Props in React JS with an example. (10)

b) What is a REST API? Discuss its core principles and why they are important. (10)

Q2. a) Explain Buffers and Streams in Node.js. Provide an example where they are useful. (10)

b) Discuss the different phases of the React component lifecycle. (10)

Q3. a) Discuss the differences between var, let, and const in ES6 with examples. (10)

b) Explain promises with an example. (10)

Q4. a) Explain File System module of Node.js in detail. (10)

b) What is Web Browser. Discuss working of Web Browser in detail. (10)

Q5. a) What is ExpressJS. Explain features of ExpressJS. (10)

b) Explain Flux architecture in detail. (10)

Q6. Short note on: (Any 4) (20)

a) ES5 vs ES6

b) JSX

c) JSON

d) URL vs. URI

e) Arrow Function