## Paper / Subject Code: 32421 / Internet Programming

June 3, 2024 02:30 pm - 05:30 pm 1T01235 - T.E. (Information Technology Engineering) (SEM-V) (Choice Base Credit Grading System) (R- 19) (C Scheme) / 32421 - Internet Programming QP CODE: 10055189

## (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.** a) Explain HTTP and HTTPS protocol

(10)

- b) You have been tasked to develop software for Hotel management. How will you divide functionality between the front end, back end, and database (1
- **Q2.** a) Explain different types of components in React JS with an example.

(10)

b) Write a program in ReactJS to print "Hello World" on the browser.

(10)

Q3. a) Explain the Event loop in Javascript

(10)

b) With an example demonstrate the use of promise.

(10)

**Q4.** a) Write a Node JS program for following:

**(10)** 

- i. Create a new file and add data into it.
- ii. Append more data in the same file at the end of existing data
- iii. Read the file data without getting the buffer data.
- iv. Rename the file.
- v. Delete the file.
- b) Explain event handling in Nodejs

(10)

Q5. a) Explain routing in Express JS along with an example

**(10)** 

b) Give a difference between XML and JSON

**(10)** 

Q6. Short note on: (Any 4)

**(20)** 

- a) REPL
- b) React Props
- c) JSX
- d) Cookies
- e) Session

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