

INP Semester Questions

INP MAY 2023

Q1a i): How to declared variables in ES6?

Q1a ii): Differentiate between ES5 and ES6.

Q1b: Explain React component life cycle.

Q2a: Explain Flux architecture in detail.

Q2b: Explain Promises in ES6 with an example.

Q3a: Explain File System of Node JS in detail.

Q3b: Write a stepwise process to create an APP using React JS to print “Hello World”.

Q4a: What is Express JS. Explain features of Express JS.

Q4b: What is DNS? Explain working of DNS.

Q5a: What is REST API? What are the principles of REST API.

Q5b: What is Web Browser? Discuss working of Web Browser in detail.

Q6: Short note on: (Any 4)

- JSON
- NPM
- JSX
- Difference between `let` and `const` keyword
- Arrow function in ES6

INP DEC 2023

Q1a: Explain features of React JS. Write a stepwise process to create an APP using React JS to print “ Hello World ” on browser.

Q1b: What is REST API? What are the principles of REST API.

Q2a: Explain different types of components in React JS with an example.

Q2b: What are Buffers and Streams in Node JS? Explain with an example.

Q3a: Explain Hooks in React JS.

Q3b: What is DNS? Explain working of DNS.

Q4a: Write a Node JS program for file operations (create, append, read, rename, delete).

Q4b: Explain promises with an example.

Q5a: Explain routing in Express JS along with an example.

Q5b: Differentiate between ES5 and ES6.

Q6: Short note on: (Any 4)

- REPL
- Arrow Function
- JSX
- JSON
- HTML vs. XML

INP MAY 2024

Q1a: Explain HTTP and HTTPS protocol.

Q1b: You have been tasked to develop software for Hotel management. How will you divide functionality between the front end, back end, and database?

Q2a: Explain different types of components in React JS with an example.

Q2b: Write a program in React JS to print “ Hello World ” on the browser.

Q3a: Explain the Event loop in JavaScript.

Q3b: With an example demonstrate the use of promise.

Q4a: Write a Node JS program for file operations (create, append, read, rename, delete).

Q4b: Explain event handling in Nodejs.

Q5a: Explain routing in Express JS along with an example.

Q5b: Give a difference between XML and JSON.

Q6: Short note on: (Any 4)

- REPL
 - React Props
 - JSX
 - Cookies
 - Session
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INP DEC 2024

Q1a: Differentiate between HTML and XML.

Q1b: How to declare variables in ES6?

Q1c: What is React JSX?

Q1d: Short Note on REPL.

Q2a: Write a React JS code for creating 2 components and render those components on webpage.

Q2b: What is NodeJS? Explain different types of NodeJS Modules.

Q3a: Differentiate between MVC, Flux, Redux.

Q3b: What is REST API? What are the principles of REST API.

Q4a: How does routing work in Express JS? Provide a basic routing example.

Q4b: Explain promises with an example.

Q5a: Explain features of Express JS. Write a program in Express JS to display "Hello World" on browser.

Q5b: What are Buffers and Streams in Node JS? Explain with an example.

Q6: Short note on: (Any 4)

- DNS
 - Arrow Function
 - NPM
 - JSON
 - ES5 vs. ES6
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INP MAY 2025

Q1: Attempt any FOUR

- **Q1a:** What is the difference between PHP and Java Script?
- **Q1b:** Design a basic registration form that contains fields such as First Name, Last name, Mobile No, Email Id and address. Write java script code for validation of the same?
- **Q1c:** What are the characteristics of Rich Internet Application?
- **Q1d:** Discuss any two validation functions in Java Script?
- **Q1e:** What is React JS? Explain React components?

Q2a: Explain the concept of AJAX and how it differs from traditional web development approaches?

Q2b: How does PHP handle session tracking and user authentication? Provide an example of a login system using PHP and MySQL?

Q3a: Develop the CSS code to apply the following styles to the paragraph below the specified heading:

- Utilize a yellow text color
- Set the font size to 25px
- Apply a bold font style

Q3b: Examine the concept of JSON by inspecting its structure and function, and categorize its usage with an example that demonstrates how data is represented and exchanged in web applications?

Q4a: Create an HTML page that displays the message "Responsive Design in Action." Write a media query that changes the background color to light blue when the browser window is 500px wide or less, and otherwise keeps the background color as white?

Q4b: What is the purpose of using regular expressions in JavaScript? How can regular expressions be utilized to validate email addresses, and how would you incorporate JSON in the process?

Q5a: Explain the differences between the HTTP GET and POST methods and evaluate their appropriate usage scenarios with practical examples?

Q5b: Write a PHP program that tests whether an email address is input correctly. Test your program with both valid and invalid email addresses?

Q6a: Construct a JavaScript function that returns the Fibonacci sequence up to a given number, utilizing memorization for optimized performance?

Q6b: Describe the role of JSX (JavaScript XML) in React. How does JSX help simplify the development of the user interface for your task management application?