Web Application Programming Mid-Semester Exam

Format

Questions:

Multiple Choice Questions: 15
Coding Questions: 6

Time:

2 hours, both sections.

Syllabus

JavaScript

JavaScript Variables

- var Keyword
- let Keyword
- const Keyword
- var vs let vs const

JavaScript Logging

- console.log()

JavaScript Data Types

- String
  - String Methods
- Boolean
- Number
  - Number Methods
- undefined
- null
- Symbol
- Array
- Object
- typeof Keyword

JavaScript Operators

- Arithmetic Operator
- Comparison Operator
- Logical Operator
- Assignment Operators

Conditional Statements

- if else
- switch case
- Ternary Operator

JavaScript Loops

- for Loop
- while Loop
- do while Loop
- Iteration Control Flow
    - break Statement
    - continue Statement

JavaScript Functions

- Function Declaration
- Arguments
- return Keyword
- Function Usage
- Rest and Spread Operators
- Types of Functions
    - Arrow Functions
    - Higher Order Functions
    - Callback Functions

JavaScript Arrays

- Creating and using Arrays
- Array Methods
    - JavaScript Array push()
    - JavaScript Array pop()
    - JavaScript Array shift()
    - JavaScript Array unshift()
    - JavaScript String split()
    - JavaScript Array join()
    - JavaScript Array sort()
    - JavaScript Array find()

- ○ JavaScript Array includes()
- Array Iteration Methods
  - ○ JavaScript Array forEach()
  - ○ JavaScript Array map()
  - ○ JavaScript Array filter()
  - ○ JavaScript Array reduce()

JavaScript Objects

- Creating and using Objects
- Object Methods
  - ○ JavaScript Object.keys()
  - ○ JavaScript Object.values()
- Deep Copy & Shallow Copy

JavaScript Asynchronous Programming

- JavaScript Timers
  - ○ setTimeout
  - ○ setInterval
- Promises
- Promise Chaining
- async functions
- async/await

Data Fetching using JavaScript

- Using fetch()