2111000104050002
B.C.A. S.Y (Sem – IV)
Examination November-2023
Web Designing – II

Seat No:

Student's Signature

[**Time: Three Hours**]   [**Max. marks: 70**]

Instructions: 1) ALL QUESTIONS ARE COMPULSORY.
                              2) FIGURES TO THE RIGHT INDICATE FULL MARKS.
                              3) PROVIDE PROPER EXAMPLE AS AND WHEN
                              REQUIRE.

Q.1   Answer any Seven in short from the following: **14**
  1. What is a root element in XML?
  2. What is jQuery callback function?
  3. What are asynchronous web applications?
  4. What are XMLHttpRequest objects?
  5. Write advantages of jQuery.
  6. Write features of JSON.
  7. Explain require() of Node.js.
  8. Write briefly about HTTP module of Node.js.
  9. Discuss features of Node.js.
  10. Explain readFile() of File System Module.

Q.2   Attempt any 2 in detail: **14**
  1. Explain jQuery Effects.
  2. Explain following jQuery methods: append(), prepend(), before(), after()
  3. Explain Request and Response of Node.js HTTP Server.

Q.3   Do as directed: **14**

  A)   Attempt any 2 from the following: **10**
  1. Explain Reading and Spliting of Query String.
  2. Discuss working of multi-dimensional arrays in JSON with example.
  3. Explain jQuery Events.

  B)   Explain about Rename and Delete File System of Node.js.   **04**

1

Q.4 **Write a code for the following:** **14**

A) **Attempt any One:** **08**
1. Create a webpage that accepts personal information of the user using jQuery which contains Name, Email, Contact Number, Gender, Address etc. User can also add a new Contact Number if it is require; by clicking on "Add Contact" link.
2. Take appropriate assumptions and display the customer information using JSON object.

B) Write an XML file which will display the Product information which includes the following: **06**
1. Product Number
2. Product Name
3. Product manufacture date
4. Product expiry date
5. Price

Q.5 **Write Short Notes on the following: (Any 2)** **14**
1. Node.js as Web-Server
2. XMLHttpRequest Methods
3. AJAX architecture
4. Working of Array of String and Booleans in JSON