

**2111000104050002**  
**Second Year B.C.A (Sem) – IV**  
**Examination April -2023**  
**Web Designing – II**

**Seat No:**

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**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 the following in Brief [Any 7]:**

**[14]**

1. How XML is Extensible?
2. What is jQuery Object?
3. What are the data types used in JSON?
4. Explain css() property of jQuery.
5. What are JSON Arrays?
6. What is fs.appendFile() method?
7. What are the components of Node.js?
8. What is readyState property?
9. What are request and response components of Node.js?
10. How the files can be deleted using Node.js.

**Q.2 Attempt the following [Any 2]:**

**[14]**

1. What are the characteristics of XML?
2. Explain jQuery events with example.
3. Write about JSON Array of objects and multi dimensional arrays with example.

**Q.3 Do as directed:**

**[14]**

**A. Attempt Any 2 Questions.**

**[10]**

1. Write about Insert methods of jQuery
2. Write about syntax rules of XML Tags, Elements and Attributes.
3. Write about similarities and differences of JSON and XML.

**B. Explain the features of Node.js.**

**[4]**

**Q.4**

**A. Write a code for the following: (Any 2)**

**[10]**

1. Write a code to Convert JSON Data to HTML Table as under:

Employee No	Employee Name	Salary	Commission
1	AAA	20000	2000
2	BBB	25000	2500
3	CCC	30000	3000

2. Create a webpage that accepts personal information of the user using jQuery as shown below. The user can add a new language; if it is not available in the list by clicking on "Add Language" link.

The diagram shows a form titled "Information". It contains fields for "Full Name", "Email ID", "Contact No", "Gender" (with radio buttons for "Male" and "Female"), "Address", "Languages" (with a dropdown menu showing "Gujarati" and a checked "Add Language" checkbox), and a "Save" button.

3. Write a code for user defined module that calculates various operations like addition, subtraction, multiplication and division using Node.js.

**B. Write an XML file which will display the Book information which includes:**

**[4]**

- 1) Book Title
- 2) Book Author Name
- 3) Book ISBN number
- 4) Book Publisher name
- 5) Price

**Q.5**

**Write a Short Note on the following (Any 2):**

**[14]**

1. XMLHttpRequest technology
2. Difference between Synchronous and Asynchronous web application
3. fs.writeFile() and fs.readFile() methods of Node.js
4. require() function of Node.js