2111000104050002
BCA (Sem – IV)
Examination July-2023
WEB DESIGNING-II

Seat No:

Student's Signature

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

Instruction   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 short: (Any 7)   **14**
1. What is XML? Write down rules for XML declaration.
2. What is comment? How to add comments in XML?
3. Explain $(document).ready() function with example.
4. What is the use of css() method of jQuery?
5. What is JSON? How to create array of numbers in JSON?
6. Differentiate between JSON and XML.
7. List out various properties of XMLHttpRequest object.
8. Differentiate between synchronous and asynchronous request.
9. Explain require() function of Node.js.
10. Explain HTTP module of Node.js.

Q.2   Answer the following: (Any 2)   **14**
1. Explain XML syntax for declaration, tags and elements.
2. Explain various methods related to jQuery effects.
3. Explain working of AJAX and its architecture.

Q.3   Do as directed: **14**
                 (A) Answer the following: (Any 2)   **10**
1. Write a note on jQuery selectors.
2. Explain XMLHttpRequest technology.
3. Explain user-define modules in Node.js.

                 (B) Explain with example how to create an array of objects in JSON.   **04**

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Q.4   Write a code for the following: **14**
(A) Attempt any one.   **06**
1. Create an XML document that represents semester-wise subjects taught in B.C.A. each subject has subject code and name associated with it.
2. Create a JSON object that represents details of 5 employees. Each employee has certain fields like; empCode, fullName, salary, designation, birth Date, languagesknown etc.

(B) Create a web page that accepts product_id and product_name from the user. The page   **08**
has also one button named "ADD". Further, add one table in page having just appropriate heading. Each time when user clicks on the ADD button a new row should be added into the said HTML table.

Q.5   Write a short note on the following: (Any 2)   **14**
1. Node.js File System Module
2. JSON Data Types
3. jQuery Events
4. Query String in Node.js