

(3 hours)

[80 marks]

- NOTE: 1. Question No 1 is compulsory  
2. Attempt any three questions from remaining.  
3. Assume suitable data if necessary and state the same.

Q1. Answer following.

- a. Create a HTML page Showing a message “I use media query”. Write media query such that the text color changes to light gray when browser window is 600px wide or less and otherwise it is black. [05]
- b. Explain Geo Location API with example usage. [05]
- c. What are characteristics of Rich Internet Application? [05]
- d. Differentiate between REST and SOAP. [05]

Q2.

- a. What is AJAX ? Explain steps required to process AJAX with example. [10]
- b. Explain various cross browser compatibility issues. [10]

Q3.

- a. What are benefits of using JSON over XML data. Create a XML page storing name, country, runs scored, balls faced for three batsman. Represent same data as JSON object [10]
- b. Explain Micro Data with suitable example. How to verify support for Micro Data? [10]

Q4.

- a. Explain how session management is done in PHP. Clearly explain how to create, access, modify session variables in PHP. [10]
- b. Explain important features of Django framework. [10]

Q5.

- a. Create a HTML form that accepts first name, last name, department and designation from user. Create a PHP code that stores this information in a mysql database named employee with an existing table emp\_details having appropriate schema and acknowledges the user through appropriate message about success or failure during data insertion. Assume suitable user name and password to access database. [10]
- b. Explain with proper syntax and example how to use different types of CSS selectors. [10]

Q.6

- a. Explain <audio>, <video> and <canvas> elements in HTML5. [10]
- b. Explain “Window” object of JavaScript DOM. Write JavaScript code to change background colour of the web page automatically after every five seconds. [10]

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