(**3 Hours**)   [**Total Marks: 80**]

N.B.: (1) Question No.1 is compulsory.
     (2) Attempt three questions out of remaining.
     (3) Figures to right indicate full marks.

Q.1 Answer the following
a. Explain <Canvas> element in HTML5.   [05]
b. Explain UDDI.   [05]
c. Create an HTML page which will divide a page in two horizontal fragments using
   frameset tag, each frame should have different background color & different headings.   [05]
d. Differentiate between XML & HTML.   [05]

Q.2
a. Explain Geo-location and media query with an example in HTML5 and CSS3.   [10]
b. What is cross browser compatibility? Explain the issues related to cross browser compatibility.
                                                                                                                                      [10]

Q.3
a. Explain features of Django Framework.   [10]
b. Write an HTML code to process placement registration form which accepts the student details like
name, address, email-id, contact-number, date of birth, percentage, branch (must be selected using radio
button) and technology-preferred (using checkbox). Write the JavaScript code to validate the following

    i. valid email id ("@" and ".")
    ii. all the fields must be filled before submission of the form.
    iii. percentage validation is minimum first class (= > 60 %)   [10]

Q.4
a. Draw the diagram of AJAX application model and traditional application web model
   and compare them.   [10]

b. Create an HTML form to accept the details like Name (Text field), Address (Textarea),
   Gender (Radio) and Company Name (Dropdown box) fields from user, Write a PHP code to store this
information into employee table using MySQL database .   [10]

Q.5
a. Explain architecture of JSON mash-ups in detail with neat diagram.   [10]
b. Explain XML & DTD   with example.   [10]

Q.6
a. Write a HTML5 code for embedding audio & video elements in web page.   [10]
b. Differentiate between REST & SOAP.   [05]
c. Explain characteristics of Rich Internet application (RIA).   [05]

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