

(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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