



## IV SEMESTER B.TECH. END SEMESTER EXAMINATIONS, MAY-2017

### SUBJECT: OPEN ELECTIVE I - DESIGN AND DEVELOPMENT OF WEB

#### APPLICATIONS (ICT-3282)

#### REVISED CREDIT SYSTEM

(02/05/2017)

Time: 3 Hours

MAX. MARKS: 50

#### Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- ❖ Missing data if any, may be suitably assumed.

- 1A.** Design a web page as shown in Fig. Q.1A using CSS and HTML5. (Home, Register, and Login are hyperlinks and tower.jpg and dietel.jpg are the names of two images)

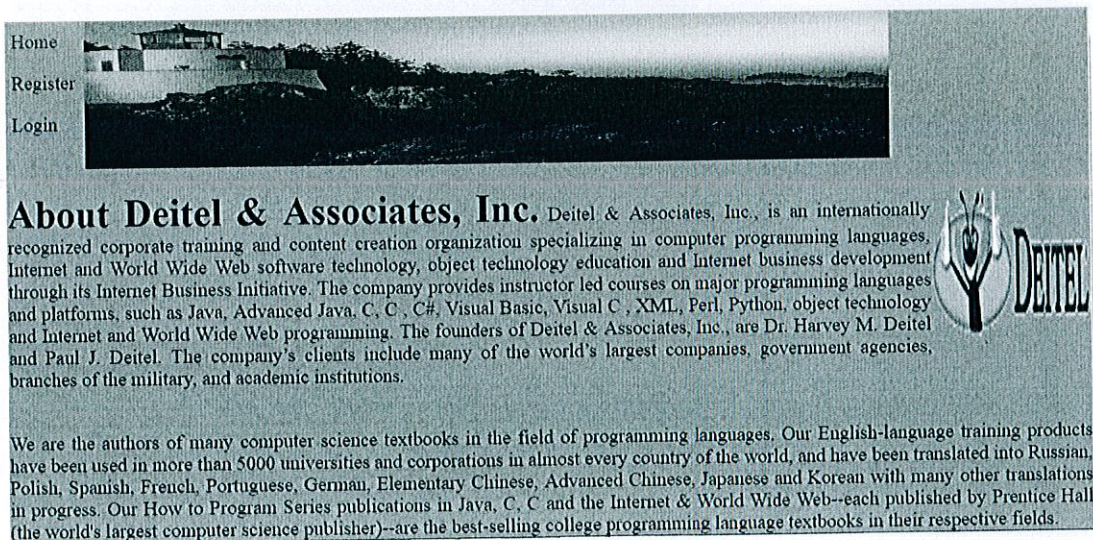


Fig. Q.1A

- 1B.** Create a student feedback form for a course with different types of controls. 3
- 1C.** What do you mean by pseudo classes and pseudo elements in CSS? Explain with example. 2

- 2A.** Design an HTML5 form and Javascript code for the following.

- i) Form should have label and fields for inputting username, password, age, email id and a submit button.
- ii) Write Javascript function for verifying if all fields are entered by the user. 5



- iii) Also write Javascript functions to validate the following.
- a. Username should be of length 8 characters and can contain only alphanumeric characters.
  - b. Email id should have the structure of alphanumeric characters followed by @, then alphabets, then '.' and then three letters or alphabets.
- 2B.** Explain different types of arrays in PHP. **3**
- 2C.** Write an HTML5 code for the document containing an ordered list of 3 image hyperlinks. **2**
- 3A.** Demonstrate the validation of username and password fields through suitable database access using HTML5 and PHP Script. [Assume that the username and password table is already created in data base]. **5**
- 3B.** Read marks of  $n$  students and store it in an array. Sort it and display the result using Javascript. **3**
- 3C.** Design a web page containing two textboxes, one select option box and a submit button. On clicking submit button the PHP script should add/subtract (depending upon the choice) the numbers entered in textboxes and display their sum to the client. **2**
- 4A.** Explain any two methods of getting connected to the internet. **5**
- 4B.** With an example explain the use of autocomplete attribute. **3**
- 4C.** Write a note on following objects. **2**
- i) History
  - ii) Navigator
- 5A.** Explain any five types of CSS selectors with an example for each. **5**
- 5B.** Explain event bubbling and capturing options with a suitable example in Javascript. **3**
- 5C.** Write a Javascript program to greet the user depending upon time of visit to the web page. **2**