

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

SUBJECT: OPEN ELECTIVE I - DESIGN AND DEVELOPMENT OF WEB

**APPLICATIONS (ICT-3282)** 

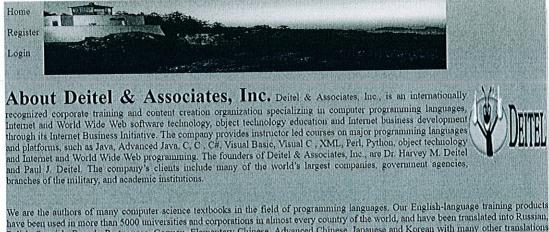
REVISED CREDIT SYSTEM (02/05/2017)

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)



We are the authors of many computer science textbooks in the field of programming languages. Our English-language training products have been used in more than 5000 universities and corporations in almost every country of the world, and have been translated into Russian, Polish, Spanish, French, Portuguese, German, Elementary Chinese, Advanced Chinese, Japanese and Korean with many other translations in progress. Our How to Program Series published in judgest computer science publisher)—are the best-selling college programming language textbooks in their respective fields.

Fig. Q.1A

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

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- 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]. **3B.** Read marks of n students and store it in an array. Sort it and display the result using Javascript. 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. **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