



### IV SEMESTER B.TECH. END SEMESTER EXAMINATIONS, APRIL/MAY 2019

SUBJECT: OPEN ELECTIVE I - DESIGN & DEVELOPMENT OF WEB APPLICATIONS [ICT 3282]

REVISED CREDIT SYSTEM

(07/05/2019)

Time: 3 Hours

MAX. MARKS: 50

#### Instructions to Candidates:

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

**1A.** Using HTML5 and Javascript, create a form as shown in Fig. Q.1A below:

Fig. Q.1A: SortForm

Referring to Fig. Q.1A, the form should work as follows:

- i. On click of the "Add" button, an item entered in the text field should be concatenated in the new line to the control below. Any number of items can be added this way.
- ii. On click of the "Sort" button, all the displayed items in the last control should be sorted in ascending order and displayed.
- iii. On click of the "Clear" button, all the controls should be cleared including any stored items in code. And again the steps i, ii, iii can be repeated with new items.

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**1B.** Explain various border properties in CSS.

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**1C.** Embed javascript code within HTML5 – the embedded javascript code should display the full name of the weekday from the current date. Eg: If the current date is 19 Mar 2018, then "Monday" should be displayed.

2

**2A.** Explain with an example the following HTML5/CSS concepts.

- i. Definition list
- ii. Ordered and unordered list
- iii. Noresize attribute

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iv. Fixed positioning.

**2B.** Using HTML5, create the frameset shown in Fig. Q.2B:

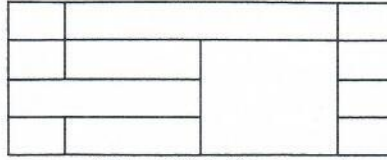


Fig. Q.2B: Frameset

- 2C.** Explain the concept of event capturing and bubbling with example code for each. 3
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- 3A.** Using HTML5 and Javascript, accept a list of “n” emailid/password pairs from the user (where n is the user defined limit). Validate each of the emailid/password pairs in the list and on hitting the “DisplayEmails” button display all of them in HTML5 table rows with two columns “Email” and “Password”. Email validation is the normal check for a valid email and Password validation is just a check for string with 8 characters or more. All valid emailid/password pairs should be displayed in rows with green background and all invalid emailid/password pairs should be displayed in rows with red background. 5
- 3B.** Illustrate form validations with example javascript code. 3
- 3C.** Explain any two types of positioning in CSS with an example for each. 2
- 4A.** Design a web page containing two textboxes and a submit button. The first textbox should accept the name of the user and the second textbox should accept his/her birthday in the format “dd/mm/yyyy”. On clicking the submit button the PHP script should move to another web page “age.php” and calculate and display the age of the user as follows:  
Dear <username>, you are currently <x> years old.  
where <username> is the name entered by the user and <x> is the calculated age. 5
- 4B.** Explain the usage of the following HTML5 tags with examples:  
i. mark  
ii. q  
iii. map 3
- 4C.** Write a javascript regular expression for each of the following:  
i. A valid email id  
ii. A password containing 1 uppercase alphabet, followed 2 lowercase alphabet, followed by 1 digit and lastly 1 special character 2
- 5A.** Explain any 5 methods of getting connected to the internet along with diagrams. 5
- 5B.** How are “Extracting”, “Replacing” and “Formatting” operations performed on strings in PHP? Illustrate with examples. 3
- 5C.** How do you iterate through associative arrays in PHP using for-each? Illustrate with code example. 2