



**MANIPAL INSTITUTE OF TECHNOLOGY, MANIPAL 576104**  
(Constituent College of Manipal University)

**SIXTH SEMESTER B.E. (IT) DEGREE END SEMESTER EXAMINATION MAY – 2012**  
**SUBJECT: INTERNET TECHNOLOGY AND APPLICATIONS – ICT 302**  
(REVISED CREDIT SYSTEM)



Reg. No. 

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TIME: 3 HOURS

15/05/2012

MAX. MARKS: 50

**Instructions to candidates**

- Answer any **FIVE FULL** questions.
- Missing data, if any, may be suitably assumed.

- 1A. What is data island? Explain with an example.
- 1B. Write a DHTML code that reads a 5 letter word from the user and produces all possible three letter words. Three letter words are derived from five letter word.
- 1C. Differentiate between SPAN and DIV tags.

(5+3+2)

- 2A. Write an applet to do the following.

- i. Create a drop-down list with set of colors.
- ii. Change the background color based on the selection.
- iii. Display the selected color name in Arial, 28pt and Bold+Italics.

- 2B. Write a DHTML code to bind the records stored in emp.txt to a HTML file and display the contents of file. The file emp.txt should contain employee name, employee ID and Designation.

- 2C. Create a HTML document to display text over an image.

(5+3+2)

- 3A. Create web page that allows user to select one or more books by using check boxes. Display the name of the each book and its price. Display current total in a text box at the bottom of the page. When a book is selected update the total. Display the selected book at the status bar.

- 3B. Explain different property types available in VBScripts with an example.

- 3C. List the different types of schemas? Differentiate between them.

(5+3+2)

- 4A. Write VBScript to do the following.

- i. Create a class Crational for performing arithmetic with fractions. Class should contain two private instance variable to represent numerator and denominator. Fraction is represented in reduced form (i.e. 2/4 is stored as 1 in numerator and 2 in denominator).
- ii. Provide public methods for the Addition, Subtraction, Multiplication and Division of two Crational numbers. The result should be stored in reduced form.
- iii. Functions should return Crational in reduced format.

4B. Which filter is used to get motion effect? Give an example with its attributes.

4C. What is the necessity of SOAP?

(5+3+2)

5A. Create a XML file with a XSD schema code for storing the marks record of the students. The mark record has name, roll number and 3 subjects as field names. Write a program to retrieve the elements of the XML document and display the marks statement.

5B. Differentiate the different types of style sheets? Give an example for each.

5C. Create a web page which applies the glow filter to a text if the user moves the mouse over the text.

(5+3+2)

6A. Using Structured Graphics Control draw a cube. Rotate the cube when user moves the mouse. The cube should rotate in the direction in which the user drags the mouse. Use onmousedown and onmouseup events.

6B. What is well-formed XML? Explain.

6C. When do we use column-span and row-span in html table? Give an example.

(5+3+2)

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