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Eighth Semester B.E. Degree Examination, June 2012
Web 2.0 and Rich Internet Applications

Time: 3 hrs.

Max. Marks:100

**Note: Answer FIVE full questions, selecting
atleast TWO questions from each part.**

PART – A

- 1**
- a. Substantiate the following statements :
Web 2.0 needs collaborative computing
“Content is king” has been rewritten as “Data is king”. (04 Marks)
 - b. Explain the role of SOAP and WSDL in web services. (05 Marks)
 - c. What are mixed literals? Give the Java script and JSON examples to write mixed literals. (04 Marks)
 - d. Consider the following XML content :

```

<bookinfo>
  <books>
    <book>
      <isbn> 910092313</isbn>
      <author>
        <name> A </name>
        <city> C </Cname>
        <pno> 9813521617 </pno>
      </author>
      <title> data structures </title>
    </books>
    <isbn> 92092313 </isbn>
    <author>
      <name> T </name>
      <city> S </city>
      <pno> 9419381210 </pno>
    </author>
    <title> Data structures </title>
  </books>
</bookinfo>

```

Convert this “book” XML file into JSON. Compare and contrast XML and JSON for this example. (07 Marks)
- 2**
- a. Depict the traditional web application model and AJAX web application models. Discuss the important principles of good AJAX applications specified by Michael Mahemoff. (08 Marks)
 - b. Explain how Gmail and A9 enables the effective use of AJAX. (04 Marks)
 - c. Develop a dynamic web application, in which a student name is retrieved given the USN. Use the hidden frame GET request technique for the same. Assume that student data is available in the table “Student” with the field, <name, USN>. (08 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.

- 3 a. Write a cross browser way of creating XHR objects. (05 Marks)
 b. Bring out the disadvantages of XHR. (04 Marks)
 c. Differentiate no-cache and no-store directives. (02 Marks)
 d. Explain submission throttling procedure with a flow diagram. Give the various ways in which “polling” mechanism is implemented on the web. (09 Marks)
- 4 a. Enlist the various advantages of flash player. (04 Marks)
 b. Compare and contrast traditional and flex web applications. (06 Marks)
 c. Write the flex application source-compile-deploy work flow of flex application. (03 Marks)
 d. Give the general structure of the MXML document and explain all the elements involved. (07 Marks)

PART – B

- 5 a. Discuss the different places for embedding action script within flex. (08 Marks)
 b. Translate the following MXML tag into equivalent action script code :
 <! XML version = “1.0” encoding = “utf-8”?>
 <mx : Application xmlns : mx = “http : // adobe.com /2006/MXML” Layout = “absolute”>
 <mx : Button id = “Button”/>
 </mx : application>. (05 Marks)
 c. Consider the following XML data for 2 students :
- | | |
|--|---|
| <pre> <students> <student> <usn> 100 × 12 </usn> <name> Raj </name> <sem> 5 </sem> </student> </students> </pre> | <pre> <student> <usn> 100 × 13 </usn> <name> shyam </name> <sem> 5 </sem> </student> </pre> |
|--|---|
- (07 Marks)
- 6 a. Discuss the different internal life cycle events of flex application. (03 Marks)
 b. Create an MXML application that creates a canvas with a background color “blue”. It adds a public method that allows loading application to set the background color. (06 Marks)
 c. With a class diagram, explain the different container types of flex framework. (07 Marks)
 d. Create the equation $x_1^2 + y_1^2 = z^2$, using flex layout managers. (04 Marks)
- 7 a. Explain the common UI component properties that can always be counted upon. (06 Marks)
 b. Create a data grid with columns <empname, designation, address> using,
 i) MXML ii) Action script for four sample data records. (06 Marks)
 c. Consider a college having four departments CS, IS, EC, MECH.
 CS has BE section A, BE section B, M Tech
 IS has BE section A, BE section B
 EC has only one BE section
 MECH has BE section A, BE section B, M. Tech design, M.Tech automobile
 Display this information in flex, using tree control and control bars. (08 Marks)
- 8 a. With a block diagram, explain the working of a simple Mashup application using HTTP. (07 Marks)
 b. Explain the mechanism to create a “NEWS TICKER”, using AJAX. (07 Marks)
 c. Explain the mechanism of using webservice components with MXML. (06 Marks)