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**Fifth Semester MCA Degree Examination, December 2011**  
**Web 2.0 and Rich Internet Applications**

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions.**

- 1
  - a. What is web 2.0? Explain. (04 Marks)
  - b. Explain the following in brief: WSDL, REST. (08 Marks)
  - c. What is JSON? Compare JSON with XML by taking the example of information about three students in a class. (08 Marks)
  
- 2
  - a. What is Ajax? Explain the key principles of good Ajax application. (08 Marks)
  - b. List some features of Google maps, to improve its user experience, using Ajax technologies. (04 Marks)
  - c. Describe four steps pattern of hidden frame techniques, with a neat diagram. (08 Marks)
  
- 3
  - a. Write a Javascript function to create an XML Http object. The function should make sure you are always using the most recent version available in the user's machine. (08 Marks)
  - b. What is a predictive fetch? Describe any one suitable situation, where, predictive fetch can be used or likely to be used. (06 Marks)
  - c. What is submission throttling? Explain this process, with a neat figure. (06 Marks)
  
- 4
  - a. Define multistage download design pattern in Ajax and list its upsides and downsides. (06 Marks)
  - b. Describe flex technologies in brief. List and explain categories of the flex class library. (08 Marks)
  - c. List different types of MXML documents and create simple MXML document to display simple button. (06 Marks)
  
- 5
  - a. Write an MXML code to input a text and bind two text controls so that, as the user changes the value in the text input, the value displayed in the text control also changes. (08 Marks)
  - b. Discuss four basic options for placing actionscript code in MXML document, with example. (08 Marks)
  - c. What is a reflection? List actionscript 3.0 functions to support reflection in the Flash.Utils package. (04 Marks)
  
- 6
  - a. Differentiate between flash player and flex framework. (04 Marks)
  - b. Illustrate loading one flex application into another flex application by taking a simple example. (08 Marks)
  - c. What is preloader? List and explain valid events for a preloader. (08 Marks)
  
- 7
  - a. What are layout rules? Explain any two layouts. (06 Marks)
  - b. Discuss important issues of style properties for padding, borders and gaps. (06 Marks)
  - c. Write a code to create a data grid with the columns named – city, state and population, using MXML and actionscript. (08 Marks)
  
- 8
  - a. What is mashup? Explain. (06 Marks)
  - b. Write a few points about when to use Ajax and when not to use Ajax? (06 Marks)
  - c. Explain the three basic categories of remote data communication in Flex. (08 Marks)

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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.