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## Fifth Semester MCA Degree Examination, June 2012

### Web 2.0 and Rich Internet Applications

Time: 3 hrs.

Max. Marks:100

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

- 1 a. Explain the following with respect to web 2.0 :  
 i) Software as a service (SaaS)  
 ii) Social networking  
 iii) Folksonomies (06 Marks)
- b. Briefly discuss iterative development and rich browser experience. (06 Marks)
- c. Define web services. Explain the components and working of soap web service. (08 Marks)
- 2 a. What is JSON? How do you convert a string to a JSON object and vice-versa? (05 Marks)
- b. Represent the following table of information in XML and JSON : (10 Marks)
- | Name  | Average | Age | Passed |
|-------|---------|-----|--------|
| Smith | 79.5    | 17  | True   |
| Steve | 34.8    | 18  | False  |
| John  | 86.3    | 16  | True   |
- c. Discuss the various real world applications of Ajax. (05 Marks)
- 3 a. Describe the hidden frame technique in Ajax, with an example. (08 Marks)
- b. What are the different ways of creating XMLHttpRequest object? Describe its role during client-server communication. (12 Marks)
- 4 a. Explain the problem of same origin. (05 Marks)
- b. Why is XMLHttpRequest request object considered as more powerful than hidden frames? (05 Marks)
- c. Describe submission throttling pattern in Ajax. (10 Marks)
- 5 a. With a neat diagram, explain the working of flex application. (05 Marks)
- b. What is meant by flex frame work? Discuss any six components of flex frame work. (07 Marks)
- c. Write the structure of MXML program by describing each component. (04 Marks)
- d. Differentiate between HTML application and MXML application. (04 Marks)
- 6 a. What is action script? Discuss the different tiers of action script API. (07 Marks)
- b. Explain how action script handles runtime errors. (05 Marks)
- c. Using the action script, explain : i) function handling ii) push ( ) method. (04 Marks)
- d. List the differences between interfaces and class in action script. (04 Marks)
- 7 a. Draw the class diagram of containers component and explain any three of it. (05 Marks)
- b. Describe any five common UI component properties. (05 Marks)
- c. Define data binding. What are the ways to apply data binding? Explain. (05 Marks)
- d. Explain how Http service component is used to send request and handle responses from the server. (05 Marks)
- 8 Write short notes on : a. Mashup applications (05 Marks)  
 b. URL loader object (05 Marks)  
 c. WSDL (05 Marks)  
 d. Technologies behind Ajax. (20 Marks)