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13MCA552

**Fifth Semester MCA Degree Examination, June/July 2016**

**Web 2.0 and Rich Internet Applications**

Time: 3 hrs.

Max. Marks:100

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

- 1 a. What is Ajax? Discuss any four real world applications of Ajax. (06 Marks)  
b. What is XMLHttpRequest object? How can we create XMLHttpRequest object? And check for browser compatibility code? (08 Marks)  
c. Describe four step pattern of hidden frame technique, with a neat diagram. (06 Marks)
- 2 a. What is predictive fetch? Describe any one suitable situation, where predictive fetch can be used. (06 Marks)  
b. Describe submission throttling pattern in Ajax, with a neat diagram. (06 Marks)  
c. With an illustration, explain the working of an array of XMLHttpRequest objects. (08 Marks)
- 3 a. Explain any six PHP server variables. (06 Marks)  
b. Write an Ajax application to read name and multiple selections of fruits from a List Box and display them using a php-script. (08 Marks)  
c. What is the purpose of time-outs in web applications? How are time-outs handled in Ajax? (06 Marks)
- 4 a. What is Flex? What is Flex framework? Explain the differences between the traditional and flex applications. (10 Marks)  
b. Describe the various stages of component life cycle. (05 Marks)  
c. Explain the working of flex applications with a neat diagram. (05 Marks)
- 5 a. List out MXML and ActionScript correlations. (06 Marks)  
b. Explain how ActionScript handles the runtime errors. (08 Marks)  
c. Write a program in ActionScript to implement the inheritance concept. (06 Marks)
- 6 a. Explain any ten common UI component properties. (10 Marks)  
b. What is a state in flex? Write an example to handle different states in flex. (05 Marks)  
c. Discuss the important issues of style properties for padding and borders. (05 Marks)
- 7 a. Explain the various types of data-binding. Give examples for each type of data-binding. (06 Marks)  
b. What is meant by data-models? Explain the usage of <mx:model> tag. (08 Marks)  
c. Discuss how to validate the user input, with an example. (06 Marks)
- 8 Write short notes on:  
a. Fluid interfaces  
b. Technologies behind Ajax  
c. Flex class library/flash player  
d. Browser cache problem in Ajax (20 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.