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BANGALORE - 560 037

13MCA552

**Fifth Semester MCA Degree Examination, June/July 2018**  
**Web 2.0 and Rich Internet Applications**

Time: 3 hrs.

Max. Marks:100

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

- 1 a. Explain the limitations of classical web applications. (08 Marks)  
b. How Ajax technology overcomes classical web applications? (06 Marks)  
c. With neat diagram, explain the Ajax web application model. (06 Marks)
- 2 a. Differentiate between Frames, Hidden Frames and IFrames. (06 Marks)  
b. Briefly discuss any four Ajax principles. (04 Marks)  
c. With snippet code, explain the steps involved in handling Request and Response using XMLHttpRequest objects. (10 Marks)
- 3 a. Write a php code for the following by using DOM and Ajax object. (08 Marks)  
i) Appending Elements  
ii) Replace Elements  
iii) Download Image  
b. Explain any two Ajax communication patterns with suitable real world examples. (12 Marks)
- 4 a. Explain the technologies behind the Flex Web applications. (06 Marks)  
b. Briefly discuss the Flex class Library. (10 Marks)  
c. Explain how flex applications work. (04 Marks)
- 5 a. Briefly explain MXML syntax and structure. (06 Marks)  
b. Write an MXML code which displays the content of a file named Test.txt using HTTP service. (08 Marks)  
c. Explain the concept of arrays in ActionScript with examples. (06 Marks)
- 6 a. With snippet code explain the steps involved in  
i) Creating and Applying states  
ii) Adding and Removing components in states (12 Marks)  
b. List out the standard effects in FLEX. (02 Marks)  
c. Briefly explain any two standard effects with snippet code. (06 Marks)
- 7 a. By using MXML and ActionScript, write a code to demonstrate the data model services for the following form  
Emp No.   
Emailid   
(Note : Don't provide your identification here, use dummy data) (14 Marks)  
b. Write the validating MXML and ActionScript code for the above fields. (06 Marks)
- 8 Write a short notes on :  
a. SAAS  
b. URL Loader in Flex  
c. Semantic web  
d. Runtime CSS (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.