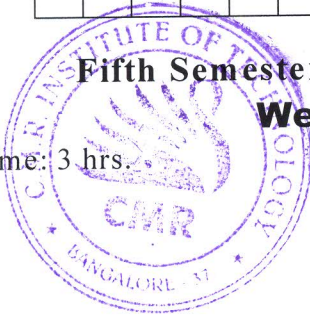# Fifth Semester MCA Degree Examination, Dec.2018/Jan.2019
Web 2.0 Rich Internet Applications

Time: 3 hrs.   Max. Marks:100

Note: *Answer any FIVE full questions.*

1 a. What is AJAX? Discuss difference between traditional and AJAX web application model with diagram. **(10 Marks)**
  b. What is XMLHttpRequest object? How can we create XMLHttpRequest object? And also check for browser compatibility code. **(10 Marks)**

2 a. What is predictive fetch? Describe where predictive fetch can be used. **(06 Marks)**
  b. With a neat diagram, describe submission throttling pattern in AJAX. **(06 Marks)**
  c. With an example, explain the working of an array of XMLHttpRequest objects. **(08 Marks)**

3 a. Explain with an example, how DOM methods are used to insert, replace and append HTML elements in AJAX applications. **(10 Marks)**
  b. What are the steps for displaying entire data in an HTML form while validating user input with PHP and AJAX with an example? **(10 Marks)**

4 a. Explain with a diagram, how flex application works when deployed on the web. **(10 Marks)**
  b. What is flex framework? Explain any six components of flex framework. **(10 Marks)**

5 a. Explain how ActionScript handle the runtime errors. **(10 Marks)**
  b. Illustrate in detail, MXML syntax and structure. **(10 Marks)**

6 a. Explain any 10 common UI component properties. **(10 Marks)**
  b. Write a program using effects in ActionScirpt. **(10 Marks)**

7 a. Explain in detail, the various types of data binding with example. **(10 Marks)**
  b. List and explain any four standard framework validators with example. **(10 Marks)**

8   Write short notes on :
  a. AJAX principles
  b. Technologies behind AJAX
  c. Flex class library/flash player
  d. Inheritance in ActionScript. **(20 Marks)**

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