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Exam. Code : 206704 Subject Code : 4114

## M.Sc. Computer Science 4<sup>th</sup> Semester ADVANCED WEB TECHNOLOGIES Paper : MCS-401

Time Allowed—Three Hours] [Maximum Marks—100

- Note :— There are EIGHT questions, attempt any FIVE. All questions carry equal marks.
- (a) What is role of HTML, CSS, Java Script in Web development ? Which tools/languages are used for server side development ?
  - (b) Which are two methods to submit form ? Explain advantages of each.
- Which are different types of validation controls ?
  Explain each with an example.
- 3. What do you mean by Rich controls ? Which are various rich controls available in ASP.Net ? Explain file upload control.
- 4. What is master page ? How can you update information from ordinary page on master page ? Give an example.

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- 5. Explain following with reference to execute SQL commands :
  - (a) SQL Data Reader
  - (b) ExecuteScalar()
  - (c) ExecuteNonQuery()
- 6. Which are different types of List controls available in ASP.Net ? Explain with example.
- 7. Which are different ways to maintain application state ? What is need to maintain application state ?
- 8. Explain following :---
  - (a) Page output caching
  - (b) SQL cache dependences.

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