QP Code : **3657**

(3 Hours) [Total Marks : 80

N. B. : (1) Question No. **1** is **compulsory**.
   (2) Write any **three** questions.
   (3) Assume suitable data if required.

1. (a) Explain 3-tier architecture and its applications. 5
   (b) Differentiate between cookies and sessions. 5
   (c) Differentiate between JSP and servelets. 5
   (d) Differentiate between HTML4 & HTML5 features. 5

2. (a) Explain ADO NET object model with suitable diagram. 10
   (b) Explain Javascript objects windows and documents. 10

3. (a) Write a Java script to write out the multiplication table for the no. 5 10
      from 1 to 20 using while loop.
   (b) What is JQUERY? Illustrate the use of JQUERY for form ralidation. 10

4. (a) What is CSS? Exlain the ways by which CSS is included in HTML. 10
   (b) What is session tracking what are the ways to do session tracking - How 10
      is it done in PHP.

5. (a) Explain life cycle of servlets. 10
   (b) Explain the need of web server. How is it administered. 10

6. Explain any **two** :— 20
   (a) Life cycle of ASP.NET application
   (b) JDBC with example
   (c) AJAX - PHP framework

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JP-Con. 12406-15.