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Total No. of Pages : 02

Total No. of Questions : 09

BMCI (2014 & Onwards) (Sem.-4)  
**ADVANCE WEB DEVELOPMENT**

Subject Code : BMCI-401

M.Code : 72804

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

**SECTION-A**

**Q1. Answer briefly :**

- a) List the events in a page life cycle.
- b) What is the role of a web server and an application server?
- c) Differentiate Range validator and Compare validator in ASP.NET.
- d) Write any two major attributes of Lists and Images.
- e) How do a session cookie and persistent cookie work?
- f) What is a master page and its usage in state management?
- g) Write the procedure to execute SQL using ADO.
- h) Why is database connection needed in ASP?
- i) What is the mechanism to upload website to remote server.
- j) Outline the role of Data Reader and Data Adaptor in ADO.NET.

## SECTION-B

- Q2) Discuss the concept of Web server controls, Validation controls and Custom controls with respect to HTML Controls.
- Q3) Explain the concept of data caching, output caching and fragment caching in ASP.NET.
- Q4) Outline the basic security guidelines for web services. Also, discuss role-based security with a suitable example.  
What is an Ajax? Discuss how to control the duration of a request in Ajax.
- Q5) Define a web service? Write code to send e-mail from an ASP.NET application.
- Q6)

## SECTION-C

- Q7) Discuss in detail, the architecture and components of Silverlight along with its advantages and limitations.
- Q8) Define a database connection and describe its attributes in detail. How can we manage the content using the Grid view?  
Write short notes on the following :
- Q9)
- a) ADO.NET and Data Binding
  - b) Domain Name and Web Space

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.