

Roll No.

67241

**M.C.A. 5th Sem. (With New Notes)
(Current Scheme)**

Examination December, 2014

Advanced Technology

Paper-MCA-501

Time : 3 hours

Max. Marks : 80

~~Before~~ answering the questions, ~~candidates~~
~~should~~ ensure that they have ~~been~~ supplied
the correct and complete question paper. No
complaint in this regard will be entertained
after the examination.

Note : ~~Attempt~~ five questions in all. Attempt
~~one~~ question each from unit-I, II, III and
IV. The entire question No. 1 is
compulsory. All questions carry equal
marks.

1. Attempt all the parts in brief :

(a) What do you mean by .NET frame work
class library ?

- (b) What are the various components of CLR ?
- (c) What are the various data types in VB .NET ?
- (d) What are the various data types in C# ?
- (e) What are the benefits of ADO .NET ?
- (f) What do you mean by interface in ADO .NET ?
- (g) Explain the anatomy of ASP .NET ?
- (h) Explain the life cycle of a web page.

Unit-I

- 2. Give the overview of distributed computing and also the origin of .NET technology. List different languages of .NET and also briefly write the features of any of these languages.
- 3. Explain the following with reference to .NET framework :
 - (a) Managed and unmanaged codes
 - (b) Common types system

- (c) .NET framework architecture
- (d) Benefits and limitations of .NET technology

Unit-II

4. (a) What is VB .NET ? Explain the main features of VB .NET.
- (b) Discuss the evolution of C# ? What are the major features of C# compared to C/C ++ ? Discuss.
5. Explain the following with reference to C# :
- (a) Various operators in C #
 - (b) Garbage collection
 - (c) Jagged array
 - (d) Indexer and property

Unit-III

6. What is ADO .NET ? How is it different from ADO ? What are major components of ADO .NET ? Also explain the data access method of ADO .NET.

7. Explain the following with reference to ADO .NET :
- (a) Basic window control
 - (b) Data adapter and data set
 - (c) Data grid constructor and destructor
 - (d) .NET data provider

Unit-IV

8. What is ASP. NET ? Discuss its important features. Also discuss the web services of ASP .NET
9. Explain the following with reference to ASP .NET :
- (a) Validation controls
 - (b) Session caching and authentication
 - (c) Advance grid manipulation
 - (d) Page server controls
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