

7. (a) Discuss how the given data can be filtered and sorted using the data connection.
- (b) Explain different components of dataset object with their respective description and their purpose.

#### UNIT – IV

8. (a) List down the differences between page level and application level error handling with appropriate segment of code in ASP.NET.
- (b) Name the protocol which is stateless protocol and discuss how client side state management options are implemented ?
9. (a) Discuss the use of Range Validator in ASP.NET and also mention how it helps in authenticating the data provided by the user ?
- (b) Define Web service and explain different components of it in detail.
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Roll No. ....

**67241**

### MCA 5th Semester (With New Notes) Examination – May, 2018

**ADVANCED TECHNOLOGY (New)**

**Paper : MCA-501**

**Time : Three Hours ]**

**[ Maximum 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 examination.*

**Note :** Question No. 1 is *compulsory*. In addition to Question No. 1 attempt any *four* more questions by selecting *one* question from each Unit.

1. (a) List any four third party languages supported by C#.
- (b) What do you understand by Versioning support feature of .NET and C# ?
- (c) Discuss the syntax of foreach loop provided by C#.

- (d) What is implicit type casting ? Give any *two* examples.
- (e) What does the fall through mean in C# language in reference to Switch statement ?
- (f) Name different types of method parameters provided by C# language.
- (g) Define polymorphism and discuss its benefits in designing a program.
- (h) Briefly explain different window controls (VB.NET or C#).

#### UNIT – I

- 2. (a) Discuss the strategy followed in designing the .NET framework and also briefly discuss different components of Microsoft .NET platform.
- (b) Illustrate in detail the architecture of .NET framework including its different components and their respective roles.
- 3. (a) What are assemblies ? Discuss its types and the process of defining an assembly as per user requirements.

- (b) Enumerate how MSIL is associated to managed code generated in .NET environment.

#### UNIT – II

- 4. (a) Describe the complete stages of code transformation process while executing a C# program.
- (b) Illustrate the syntax of declaring and invoking a static method in C# language.
- 5. (a) What are jagged arrays ? Declare a variable size array of your choice and also differentiate it from rectangular arrays.
- (b) What do you understand by Multicasting and discuss the events associated to it ?

#### UNIT – III

- 6. (a) Briefly introduce the ADO.NET object model by explaining the key components of it with the help of a labelled diagram.
- (b) List different ways of accessing data in ADO.NET and describe anyone of it in details.