

(b) Illustrate how the navigation is carried out between the records in terms of all inbuilt methods used.

7. (a) Enumerate the process of establishing the connection to a database in ADO.NET environment including designing of data adapter and data set.

(b) Explain the method of adding data table in ADO.NET using Query Builder button.

UNIT – IV

8. (a) Define Session state and list different advantages and discuss how a session can be identified and disabled session state.

(b) How data can be authenticated by using .NET Passport and form based techniques ? Explain any one of them in detail.

9. (a) Discuss how the use of advanced grid enhances the data manipulation in ASP.NET application.

(b) Define Web Service and describe the process of creating and invoking a Web Service.

Roll No.

67241

MCA 5th Semester Current Scheme (With New Notes)

Examination – November, 2017

ADVANCED TECHNOLOGY

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) Discuss the working of OLE technology with its benefits and shortcomings.

(b) Discuss the major application domain of .NET framework.

(c) Enumerate namespaces and use of alias in C# programming.

- (d) What do you understand by explicit type casting ? Give any *two* apt. examples.
- (e) List down different method modifiers available in C#.
- (f) Name different types of method parameters provided by C# language.
- (g) Differentiate between list box and combo box used in VB.NET.
- (h) Briefly explain different window controls (VB.NET or C#).

UNIT – I

- 2. (a) Compare and contrast COM and .NET technology and analyse the development graph of this journey.
- (b) Explain the facilities provided by Common language Specification and Common Type System to the users in .NET framework.
- 3. (a) What are assemblies ? Discuss its types and the process of defining an assembly as per user requirements.
- (b) List different benefits of using managed code in place of unmanaged code in web applications.

UNIT – II

- 4. (a) What do you understand by preventing inheritance ? Discuss the methods for implementing preventing inheritance in C#.
- (b) Illustrate the need of having interfaces in C#. Write down the rules for defining, declaring and extending an interface with an example.
- 5. (a) Discuss any *five* important methods and properties of ArrayList Class and differentiate ArrayList class from Array class with appropriate examples.
- (b) What are the purposes of using delegates in C# ? Explain. Also list the rules defined for declaring and instantiating a delegate before its implementation.

UNIT – III

- 6. (a) Why Data provider is considered as one of the most vital component of ADO.NET ? List different components of data provider and explain any *one* of it.