

- (b) Elaborate how Authentication can be accomplished by using .Net Passport facility.
9. (a) What are Web Services ? Elaborate how these services are created and invoked.
- (b) What is the role of validation Controls on Web forms ? Explain any *four* such validations with examples.
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Roll No.

67241

**MCA 5th Semester (With New
Notes) (Non CBCS)
Examination – December, 2018**

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 : Attempt **five** questions in all, selecting **one** question from each Unit. Question No. 1 is **compulsory**. All questions carry equal marks.*

1. (a) Define Web Services.
- (b) What do you mean by the Third Party Language ?
Give any *two* examples.
- (c) Show the evolution of C# language diagrammatically.
- (d) What are the type safe and version able feature of C# language ?

- (e) What is automatic type conversion and narrowing in reference to type conversion ?
- (f) Name different types of Data reader used in ADO.NET.
- (g) Discuss how a complete list can be copied to another by using an inbuilt arraylist function.
- (h) How sealed classes are used in C# programming language ?

UNIT – I

- 2. (a) What is the role of .NET experience services and .NET framework in .NET platform.
- (b) What is Common Language Runtime ? List down different services provided by Common Language Runtime.
- 3. (a) Define interoperability. How it makes the C# language so popular and efficient for Web based applications ?
- (b) Define assemblies. Describe the procedure of creating an assembly.

UNIT – II

- 4. (a) What do you mean by Verbatim strings, also give examples ? Discuss how mutable and immutable strings are implemented in C# language. One example of each type is required

- (b) What do you understand by the method modifiers ? Give the description of over ride, sealed, extern and virtual method modifiers.

- 5. (a) Explain how visibility control can be implemented at class and member level along with accessibility constraints.
- (b) Why interfaces are used in C# ? Explain how it can be extended and implemented in C# ?

UNIT – III

- 6. (a) Write an explanatory note on the features of ADO.NET making it suitable for managing the voluminous data.
- (b) What are the major components of Data Provider ? Explain their respective functioning in data management.
- 7. (a) Differentiate between the Typed and Untyped dataset with appropriate examples.
- (b) Why Data Binding is important in managing the data ? Explain different types of data binding.

UNIT – IV

- 8. (a) What are the differences between Client Side and Server Side State Management ?