



NAW-003-003408 Seat No. _____

B. C. A. (Sem. IV) (CBCS) Examination

March / April - 2017

CS - 20 : Programming with C#

Faculty Code : 003

Subject Code : 003408

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

1 Answer the following : 20

- (1) What is a collection of classes ?
- (2) JIT stands for _____
- (3) Which method is used to display message on the screen ?
- (4) Which type of value cannot contain in structure ?
- (5) What is also called as a bridge between Data Set and database ?
- (6) What is also called Array within Array ?
- (7) Which keyword is used to define Indexer ?
- (8) Which control is used to display nodes in hierarchical format?
- (9) ADO stands for _____
- (10) A _____ class cannot be used as a base class.
- (11) A delegate is a _____ type variable that holds the reference to a method.
- (12) _____ represents ordered collection of an object that can be indexed individually.
- (13) Which control is used to display a pop-up menu, when user wants to display the functionality related to the control ?

- (14) Which object is used to read data in a sequential manner ?
- (15) _____ is a virtual and local relational database that is used for temporary storage of records.
- (16) DataReader supports _____ architecture.
- (17) Which control provides a powerful and flexible way to display data in a tabular format ?
- (18) In C#, which applications are light weight programs run inside the DOS prompt/window ?
- (19) Which keyword is used to split a class definition ?
- (20) _____ is a process of converting the object type to the value type.

2 (a) Attempt any **three** :

6

- (1) Define the term : JIT, Panel, GroupBox.
- (2) What is Data Table ? Explain Data Row.
- (3) What is Console application ? Explain any two functions.
- (4) What is sealed class ? Explain.
- (5) What is pointer ? Explain with suitable example.
- (6) Define the term : TreeView, Timer, ProgressBar.

(b) Attempt any **three** :

9

- (1) What is multicast delegation ? Explain with example.
- (2) Write a note on BitArray.
- (3) What is Property ? Explain with suitable example.
- (4) What is Interface ? Explain with suitable example.
- (5) Differentiate : TextBox v/s RichTextBox
- (6) What is Collection ? Explain.

(c) Attempt any **two** : 10

- (1) Explain Jagged array with suitable example.
- (2) Write a note on Data Binding ? Explain with example.
- (3) Write a note on ADO.Net.
- (4) Differentiate : Connected data architecture v/s Disconnected data architecture.
- (5) Explain .Net architecture in detail.

3 (a) Attempt any **three** : 6

- (1) Define the term : partial class, abstract class, static class.
- (2) Differentiate : Boxing v/s Unboxing.
- (3) What is MDI form ? Explain.
- (4) Differentiate : Data Table v/s Data Set.
- (5) Which types of projects are developed in .Net IDE ?
- (6) Differentiate : Menustrip v/s ContextMenuStrip.

(b) Attempt any **three** : 9

- (1) Explain programming structure of C#.
- (2) Differentiate : SqlConnection v/s SqlCommand.
- (3) What is delegation ? Explain with suitable example.
- (4) Explain advantages of .Net framework.
- (5) Differentiate : SqlDataReader v/s SqlDataAdapter.
- (6) What is MessageBox() ? Explain with suitable example.

(c) Attempt any two :

10

- (1) What is Indexer ? Explain with suitable example.
- (2) Explain Visual Studio IDE.
- (3) What is arraylist class ? Explain any three methods.
- (4) Write a code for performing search operation on the Emp table which has fields empno, ename and salary. Display only those employees whose salary is less than 3000.
- (5) Develop a C# code for select records from the database using DataReader and also display it in the DataGridView.