

(A-78)

SEAT No. _____

NO. OF PAGES : 2

SARDAR PATEL UNIVERSITY

MASTER OF COMPUTER APPLICATIONS (MCA)

SEMESTER – III

PS03CMCA22 (THE .NET TECHNOLOGY)

9TH APRIL, 2019, Tuesday

Time : 2:00 p.m. to 5:00 p.m.

Marks : 70

Note : Answers of all the questions (including multiple choice questions) should be written in the provided answer book only.

Q-1 Pick up the most appropriate answer from the given alternatives and write in your answer book. (8)

- (i) The full form of BCL is _____.
- [A] Base Code Library [B] Base Class Library
[C] Basic Code Library [D] Base Class Language
- (ii) In .NET, implicit conversion of data type is called _____.
- [A] boxing [B] unboxing
[C] cross referencing [D] none of these
- (iii) The default time interval of timer control is _____.
- [A] 100ms [B] 500ms [C] 1s [D] None of these
- (iv) The _____ namespace is required in order to create SqlConnection object.
- [A] System.Data.SqlClient [B] System.sqlData.Client
[C] System.Sql.SqlConnection [D] System.Data
- (v) Consider the following code:
- ```
class A { }
class B : A { }
class C : B { }
```
- In above code, total number of derived classes are :
- [A] 1 [B] 2 [C] 3 [D] 4
- (vi) Which ONE of the following control has Mask property?
- [A] TextBox [B] PictureBox  
[C] RichTextBox [D] MaskedTextBox
- (vii) In ADO.NET DataReader provides \_\_\_\_\_ direction of approach.
- [A] backward [B] forward [C] both A & B [D] None of these
- (viii) The XAML coding is supported by \_\_\_\_\_.
- [A] WCF [B] WPF [C] WPT [D] WCP

Q-2 Attempt the following: (ANY SEVEN)

(14)

- I. Write the major advantages of using Visual-C#.
- II. List any four data types supported by dot net framework.
- III. Differentiate : class and structure.
- IV. Differentiate : ListBox control and ComboBox control.

(1)

(P.T.O) (Contd./2)

- V. Give advantages of using StringBuffer over String class.
- VI. What is Generic? Why is it required?
- VII. What is the use of DataReader in ADO.NET?
- VIII. What is Partial Class? Give an example of it.
- IX. Write full-form of : WPF, CLR, CTS and MSIL.

- Q-3 (a) Explain dot net framework architecture in detail. (6)
- (b) Describe in detail the process of converting source code to executable code by CLR. (6)

OR

- (b) Write a note on garbage collection of dot net. (6)
- Q-4 (a) Explain any three common controls with their major properties and events. (6)
- (b) Define array. Explain single and jagged arrays by taking suitable example. (6)

OR

- (b) List and explain any three dialog controls for windows form application with their major properties and events. (6)
- Q-5 (a) Draw and explain ADO.NET architecture in detail. (6)
- (b) Discuss DataReader and DataAdapter objects of ADO.NET in detail. (6)

OR

- (b) Explain the use of DataGridView and DataSet by taking suitable example. (6)
- Q-6 (a) Define Thread. Write a note on thread life cycle. (6)
- (b) What is WPF? What are the advantages of using WPF? (6)

OR

- (b) Discuss custom control in detail with suitable examples. (6)