

[53/A-27]

SEAT No. _____

No. OF PAGES : 2

SARDAR PATEL UNIVERSITY

MASTER OF COMPUTER APPLICATIONS (MCA)

SEMESTER - III

PS03CMCA22 (THE .NET TECHNOLOGY)

22ND NOVEMBER, 2018

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 MSIL is _____.
[A] Microsoft Intermediate Language [B] Microsoft International Language
[C] Microsoft Interlinked Language [D] Microsoft Internal Language
- (ii) Sealed class can't _____.
[A] have methods [B] be inherited
[C] have variables [D] have access modifiers
- (iii) _____ property of form is set to true, in order to make it a MDI parent form.
[A] IsMdiContainer [B] IsMdiParent [C] IsMdiChildren [D] IsParent
- (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) Which of the following is the correct output for the C#.NET program segment given below?
- ```
int i = 20;
for(; ;)
{
 Console.Write(i + " ");
 if (i >= -10)
 i -= 4;
 else
 break;
}
```
- [A] 20 16 12 8 4 0 [B] 20 16 12 8 4 0 -4 -8 -12  
[C] 20 16 12 8 4 0 -4 -8 [D] None of these
- (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) \_\_\_\_\_ is the extension of WPF Window Form.  
[A] .XAML [B] .WPF [C] .CTS [D] .FRM



(P.T.O)

(Contd./2)

Q-2 Attempt the following: (ANY SEVEN) (14)

- I. State the major advantages of using Visual-C#.
- II. List logical operators of C#.net and explain in one line.
- III. Differentiate : class and structure.
- IV. Differentiate : ListBox control and ComboBox control.
- V. Give advantages of using StringBuffer over String class.
- VI. What is delegate? Mention the main use of delegate.
- VII. Differentiate between MDI and SDI application.
- VIII. What is Partial Class? Give an example of it.
- IX. Write full-form of : WPF, CLR, CTS and BCL.

Q-3 (a) Explain the architecture of .Net Framework with its diagram. (6)

(b) What is Assembly? Explain .NET assembly. (6)

OR

(b) Write a note on "Life Cycle of Windows Form". (6)

Q-4 (a) Explain Button, ComboBox and RichTextBox controls with their major properties and events. (6)

(b) Define array. Explain single and jagged arrays by taking suitable example. (6)

OR

(b) Explain foreach and switch statements by taking suitable example. (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 necessary steps required while processing the data from any database using Visual-C# programming language. (6)

Q-6 (a) Define thread. Explain thread life cycle. Write a code snippet to create a Thread in C#.NET. (6)

(b) What are custom controls? Write steps to include a custom control in windows application project. (6)

OR

(b) Write a note on WPF. (6)