

Total No. of Questions: 6

Total No. of Printed Pages:3

Enrollment No.....



Faculty of Engineering
End Sem (Even) Examination May-2018
CS3CO08 Computer Programming – II /
IT3CO16 Computer Programming-III (.Net)

Programme: B.Tech.

Branch/Specialisation: CSE / IT

Duration: 3 Hrs.

Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

- Q.1 i. Which of the following statements are TRUE about the .NET CLR? 1
- I. It provides a language-neutral development & execution environment.
 - II. It ensures that an application would not be able to access memory that it is not authorized to access.
 - III. It provides services to run "managed" applications.
 - IV. The resources are garbage collected.
- (a) I and II (b) I and III (c) I, II and IV (d) All of these
- ii. Which of the following statements is correct? 1
- (a) Static methods can be a virtual method.
 - (b) Abstract methods can be a virtual method.
 - (c) It is necessary to override a virtual method.
 - (d) When overriding a method, the names and type signatures of the override method must be the same as the virtual method that is being overridden.
- iii. Which of the following statements is incorrect about delegate? 1
- (a) Delegates are reference types.
 - (b) Delegates are object oriented
 - (c) Delegates are type-safe.
 - (d) Only one method can be called using a delegate.

P.T.O.

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- iv. Which of the following can be declared in an interface? **1**
 I. Properties II. Methods III. Enumerations
 IV. Events V. Structures
 (a) I and III (b) I,II and IV
 (c) III and V (d) IV and V
- v. The Windows Forms _____ control displays a hierarchy of nodes, like the way files and folders are displayed in the left pane of the Windows Explorer feature in Windows operating systems. **1**
 (a) ContextMenuStrip (b) TreeView
 (c) Splitter (d) ToolStrip
- vi. Which of the following displays the correct format for a C# event handler name? **1**
 (a) ClickpushName (b) Click_pushName
 (c) pushNameClick (d) pushName_Click
- vii. To use the .NET Framework Data Provider for SQL Server, an application must reference the _____ namespace. **1**
 (a) System.Data.Client (b) System.Data.SqlClient
 (c) System.Data.Sql (d) None of these
- viii. _____ object is used to fill a DataSet/DataTable with query results in ADO.net. **1**
 (a) DataReader (b) Dataset
 (c) DataAdapter (d) DataTables
- ix. If a user wants to create controls at runtime which event should be used to write code? **1**
 (a) PreLoad (b) Load (c) Init (d) PreInit
- x. Which attribute is necessary for HTML control to work as a HTML server control? **1**
 (a) runat="server" (b) runat="web-server"
 (c) ID="server" (d) ID="web-server"
- Q.2 i. What are the features of .NET framework? **2**
 ii. Explain working principle of CLR. **3**
 iii. What is Inheritance? Explain Types of Inheritance? Also write a Code to explain working of Multilevel Inheritance. **5**
- OR iv. Explain Operator Overloading with a program in C#. **5**

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- Q.3 i. What is Jagged array? **2**
 ii. Explain why C# does not support Multiple Inheritance. How Interface overcomes this problem, write a program to understand concept of Interface in C#? **8**
- OR iii. What is Multithreading? Write a program in C# to understand the concept of Multithreading. **8**
- Q.4 i. Explain Windows Forms application? **3**
 ii. Define the following terms? **7**
 (a) System Windows (b) Form control (c) User define control
- OR iii. What is WPF? Write a program to create Windows Application. **7**
- Q.5 i. Explain Component Object Model with suitable diagram? **4**
 ii. Define the following terms? **6**
 a) ODBC b) OLEDB c) SQL connected mode
- OR iii. Explain Data Access and Data Control using Grid view control? **6**
- Q.6 Attempt any two:
 i. What is ASP.NET framework? **5**
 ii. Differentiate HTML controls, Validation controls and Rich controls. **5**
 iii. What is XML? Explain Document Type Definition (DTD). **5**

Marking Scheme
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		I. It provides a language-neutral development & execution environment.	
		II. It ensures that an application would not be able to access memory that it is not authorized to access.	
		III. It provides services to run "managed" applications.	
		IV. The resources are garbage collected.	
		(d) All of these	
	ii.	Which of the following statements is correct?	1
		(d) When overriding a method, the names and type signatures of the override method must be the same as the virtual method that is being overridden.	
	iii.	Which of the following statements is incorrect about delegate?	1
		(d) Only one method can be called using a delegate.	
	iv.	Which of the following can be declared in an interface?	1
		I. Properties II. Methods III. Enumerations	
		IV. Events V. Structures	
		(b) I,II and IV	
	v.	The Windows Forms _____ control displays a hierarchy of nodes, like the way files and folders are displayed in the left pane of the Windows Explorer feature in Windows operating systems.	1
		(b) TreeView	
	vi.	Which of the following displays the correct format for a C# event handler name?	1
		(d) pushName_Click	
	vii.	To use the .NET Framework Data Provider for SQL Server, an application must reference the _____ namespace.	1
		(b) System.Data.SqlClient	
	viii.	_____object is used to fill a DataSet/DataTable with query results in ADO.net.	1
		(c) DataAdapter	

	ix.	If a user wants to create controls at runtime which event should be used to write code?	1
		(d) PreInit	
	x.	Which attribute is necessary for HTML control to work as a HTML server control?	1
		(a) runat="server"	
Q.2	i.	Four Features of .NET framework	2
		for each feature 0.5 mark (0.5 mark * 4)	
	ii.	Minimum three working principle of CLR.	3
		1 mark each (1 mark * 3)	
	iii.	For Inheritance Definition	5
		For types 1 mark	
		For program 2 marks	
OR	iv.	Operator Overloading with a program in C#.	5
		For Definition and explanation 2 marks	
		For program 3 marks.	
Q.3	i.	Jagged array definition	2
		For syntax 1 mark.	
	ii.	For reason C# not support multiple inheritance	8
		Reason how interface overcome this problem 2 marks	
		For program 4 marks	
OR	iii.	For explanation of Multithreading with diagram	8
		For program 5 marks	
Q.4	i.	Windows Forms application definition	3
		Steps to create window form 2 marks	
	ii.	Define the following terms?	7
		(a) System Windows definition 3 marks	
		(b) For Form control 2 marks	
		(c) For User define control 2 marks.	
OR	iii.	For Definition of WPF	7
		For Program of Windows Application 4 marks	
Q.5	i.	For Definition Component Object Model	4
		Diagram 2 marks	

