

M4.1-R4: APPLICATION OF .NET TECHNOLOGY

NOTE:

1. There are **TWO PARTS** in this Module/Paper. **PART ONE** contains **FOUR** questions and **PART TWO** contains **FIVE** questions.
2. **PART ONE** is to be answered in the **TEAR-OFF ANSWER SHEET** only, attached to the question paper, as per the instructions contained therein. **PART ONE** is **NOT** to be answered in the answer book.
3. Maximum time allotted for **PART ONE** is **ONE HOUR**. Answer book for **PART TWO** will be supplied at the table when the answer sheet for **PART ONE** is returned. However, candidates, who complete **PART ONE** earlier than one hour, can collect the answer book for **PART TWO** immediately after handing over the answer sheet for **PART ONE**.

TOTAL TIME: 3 HOURS

TOTAL MARKS: 100
(PART ONE – 40; PART TWO – 60)

PART ONE **(Answer all the questions)**

1. **Each question below gives a multiple choice of answers. Choose the most appropriate one and enter in the “tear-off” answer sheet attached to the question paper, following instructions therein. (1x10)**
 - 1.1 What is MSIL?
 - A) Multisocket Interface Library
 - B) Microsoft Intermediate Language
 - C) Microsoft Interface Language
 - D) None of the above
 - 1.2 You are creating a project which stores small amount of frequently changing information about a page on the client. Which is the best method to use?
 - A) Cookie
 - B) Query String
 - C) Hidden Form Field
 - D) None of the above
 - 1.3 In C#, the continue statement
 - A) Can be used for specifying the default label value
 - B) Passes control to the next iteration
 - C) Select some values from the list of values
 - D) None of the above
 - 1.4 How are the parameters passed by default in VB.Net
 - A) By Object
 - B) ByVal
 - C) ByRef
 - D) None of the above

- 1.5 Which of the following is the valid method of the command object?
- A) ExecuteNonQuery and ExecuteScalar
 - B) ExecuteQuery
 - C) ExecuteParameter
 - D) None of the above
- 1.6 Default authentication mode in ASP.net is
- A) Window
 - B) Passport
 - C) Form
 - D) Cookie
- 1.7 The Statement that is used to replace multiple if statements
- A) The switch and case statements
 - B) ? : Ternary Operator
 - C) The nested if statement
 - D) None of the above
- 1.8 What is the default access specifier for a top-level class in C#, which are not nested into other classes?
- A) Public
 - B) Private
 - C) Internal
 - D) Protected
- 1.9 Which is used into @Page attributes?
- A) Async , Code File
 - B) Master Page File
 - C) Theme
 - D) None of the above
- 1.10 Which is used for code-inline model in ASP.Net?
- A) <script runat = "server">
 - B) <script javascript = "server">
 - C) Both A) and B)
 - D) None of the above

2. Each statement below is either TRUE or FALSE. Choose the most appropriate one and ENTER in the “tear-off” sheet attached to the question paper, following instructions therein. (1x10)

- 2.1 C# is a scripting language.
- 2.2 It is possible to create custom events for an object.
- 2.3 You can declare the override method static while the original method is non static.
- 2.4 C#.net is case sensitive.
- 2.5 The try-catch statement consists of a try block followed by one or more catch clauses, which specify handlers for different exceptions.
- 2.6 Response.Redirect method is used for navigation at client side.
- 2.7 In C# there can be multiple entry point in a program.
- 2.8 A static member belongs to the class rather than to the objects of the class.
- 2.9 There is no difference between HTML controls and Windows forms controls.
- 2.10 An encapsulated object is often called an abstract data type.

3. Match words and phrases in column X with the closest related meaning/ word(s)/phrase(s) in column Y. Enter your selection in the “tear-off” answer sheet attached to the question paper, following instructions therein. (1x10)

X		Y	
3.1	&& ,	A.	Execution Engine of the .Net Framework
3.2	Object Oriented programming Language	B.	Component Object Model
3.3	Debugging	C.	Can't be Overloaded
3.4	CLR	D.	HTML
3.5	COM	E.	int [] [] a
3.6	Data Adapter	F.	Finding and fixing errors
3.7	Insert, Update , Delete	G.	Global.asax
3.8	Global Data	H.	Execution engine of the .net Framework
3.9	HTTP Response Object	I.	Contains the response that is sent to the client
3.10	Two Dimensional integer array in C#	J.	Acts like a bridge between the dataset and the datasource
		K.	SQL statements
		L.	Objects, classes
		M.	serialization

4. Each statement below has a blank space to fit one of the word(s) or phrase(s) in the list below. Enter your choice in the “tear-off” answer sheet attached to the question paper, following instructions therein. (1x10)

A.	Different Parameter	B.	Delegate	C.	Public, Private and Protected
D.	Currency	E.	'\n'	F.	delete
G.	System.WinForms.MouseEvent	H.	ADO.net	I.	XML
J.	Zero	K.	System.data	L.	Raise Event
M.	6				

- 4.1 Database connectivity is provided by _____ providers.
- 4.2 Web.config file is of type _____.
- 4.3 _____ data type of VB – 6 has been removed in VB.net.
- 4.4 _____ namespace provides access to the database classes.
- 4.5 HTML supports _____ levels of heading.
- 4.6 _____ triggers an event in VB.net.
- 4.7 _____, _____ and _____ are the access modifiers in C#.
- 4.8 Use _____ in C# loops to change the normal execution path.
- 4.9 In VB.net a _____ is a class that can hold a reference to a method.
- 4.10 _____ object gives you the details about mouse events.

PART TWO
(Answer any **FOUR** questions)

5.
a) Define assemblies. How it is different from library.
b) Describe .net advantages over COM.
c) Define and briefly discuss the role of CLR. **(6+5+4)**
6. Create following function using C#.
a) To print the largest number in an array of size 10.
b) To print the series 0,1,1,2,3,5,8,13,21,34 **(8+7)**
7.
a) Define Exceptions. What is the difference between an exception and a error?
b) List any three types of errors with example. **(8+7)**
8.
a) Define Application and Server Objects.
b) Define Web Controls.
c) Define ADRotator and Calender Controls. **(8+4+3)**
9.
a) How to associate event with user controls?
b) Explain ADO object model.
c) What is caching? **(5+6+4)**