# F - 571

## M. Sc. (IT) (Second Semester)
## EXAMINATION, May- June, 2022
## Paper First
## NET TECHNOLOGY
## [M.Sc. (IT) - 201]

*Time : Three Hours]*                    *[Maximum Marks:100*

**Note: Attempt all sections as directed.**

### Section-A

**(Objective/Multiple Choice Questions)**

**(1 mark each)**

**Note- Attempt all questions. Choose the correct answer.**

1. VB. NET is
   (A) Platform Independent
   (B) Compiler Language
   (C) Forward Compitible
   (D) Backward Compitible

2. VB. NET provides which features:
   (A) Debugging
   (B) Application Deployment
   (C) Syntax Checking
   (D) All of the above

3. _____ datatype can store any type of data.
   (A) Object
   (B) Universal
   (C) Common
   (D) Datatype

4. What is CLR?
   (A) Current Language Runtime
   (B) Common Language Runtime
   (C) Common Language Realtime
   (D) Current Language Realtime

5. New keyword is used with the:
   (A) Destructor
   (B) Constructor
   (C) Both
   (D) None

6. In VB.Net which of the following method converts a string into number?
   (A) Convert
   (B) Try parse
   (C) Extern
   (D) Parse

7. The position of an item in a list box depend on which of the following property with value sorted in the list box:

   (A) Unsorted Property

   (B) Sorted Property

   (C) Descending Property

   (D) Ascending Property

8. JIT stands for

   (A) Just In Type

   (B) Just In Thread

   (C) Just In Time

   (D) Just In Text

9. Which of the following is used to display a message box in Visual Basic?

   (A) MessageBox.Show

   (B) MessageBox.show

   (C) MessageBox

   (D) Alert Box.View

10. In VB.NET which of the following keyword tells the computer to pass the variable's address rather than its content?

   (A) ByAdd

   (B) ByPoint

   (C) ByRef

   (D) ByVal

11. Which of the following is used to write a stream of characters in VB.NET?

   (A) StreamReader Object

   (B) StreamReader Class

   (C) StreamWriter Object

   (D) StreamWriter Class

12. Which of the following instruction tells the computer to close current form in VB.NET?

   (A) this.Close ( )

   (B) Me.Close ( )

   (C) Close.This ( )

   (D) Close ( )

13. ASP is a _____ Language that tells the client's browser how to render the page on computer screen.

   (A) Markup

   (B) Programming

   (C) Structured Query

   (C) Data Storage

14. Which of the following namespace contains the form class?

   (A) SystemObject

   (B) System.Windows.Forms

   (C) System.Windows.Forms.Controls

   (D) System.Windows

15. Which of the following access modifies specifies that a property or procedure overrides an identically named property or procedure inherited from a base class?

   (A) Overrides

   (B) Overridable

   (C) Param Array

   (D) Partial

16. Which of the following block of VB. NET identifies a block of code for which particular exceptions will be activated:

   (A) Try

   (B) Catch

   (C) Finally

   (D) Throw

17. What are the three primary kinds of parameter when working with stored procedure in ASP.NET?

   (A) input, integer, string

   (B) int, varchar, nvarchar

   (C) Input, Output, InputOutput

   (D) All of the above

18. Which of the following is not a member of ADODB Command Object?

   (A) ExecuteScalar

   (B) Execute Stream

   (C) Open

   (D) Execute Reader

19. What namespace does the webpage belong in the .NET framework class hierarchy?

   (A) System.Web.Control

   (B) System.Web.RootBuilder

   (C) System.Web.UserControl

   (D) System.Web.UI.Page

20. The first event trigger in an aspx page is:

   (A) Page_init ( )

   (B) Page_load ( )

   (C) Page_Click ( )

   (D) None of the above

**Section- B**

**(2 marks each)**

**(Very Short Answer Type Questions)**

**Note:- Attempt all questions. Give answer in two or three sentences.**

1. What is namespace?

2. What do you understand by interoperability?

3. What is dynamic array? How it is declared? Give example.

4. Differentiate Radio button and check box.

5. What is interface?

6. What do you mean by abstract class?

7. Differentiate classic ASP and ASP.NET.

8. What are web services? What are their uses?

9. What is data provider? Name some data provider in ASP.NET framework.

10. What are the namespaces used in ADO.NET to connect to a database?

## Section C

**(3 marks each)**

**(Short Answer type questions)**

**Note:- Attempt all questions. Write answer in 75 words**

1. What do you know about MSIL?

2. Explain JIT and its working.

3. Explain the difference between value type and reference type with example.

4. How to define function in VB.NET? Explain with suitable example.

5. Describe Reading and Writing in XML files.

6. What is data stream & file reader writer?

7. What is ASP.NET? What are its features?

8. Differentiate verification and validation in web forms.

9. Explain web services in mobile applications.

10. Describe Data Reader Object.

## Section D

**(6 marks each)**

**(Long Answer type questions)**

**Note : Attempt all questions. Write answer in 150 words.**

1. Explain .NET framework architecture with diagram. Discuss its advantages.

**OR**

Describe complete architecture of CLR with diagram. Explain components and functions of CLR.

2. What is Exception Handling? Explain try and catch block with help of suitable example.

**OR**

Give syntax of any two loops used in .NET. Write a program to check whether a given number is prime or not.

3. What is constructor? Explain various types of constructor. Write a program to demonstrate constructor overloading.

**OR**

What do you understand by inheritance? How to limit accessibility within an interface hierarchy by using protected keyword? Explain with example.

4. Describe web form? Explain various controls and events in web form.

**OR**

What is form validation? Explain Server Side and Client side validation.

5. What is ADO.NET? Explain ADO.NET Object model.

**OR**

What is Data Grid? How is it used to access database through form? Explain with example.