Roll No. ....

E–571

M. Sc. (IT) (Second Semester) (Main/ATKT)

EXAMINATION, May-June., 2021

Paper First

NET TECHNOLOGY

[M. Ss. (IT)–201]

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

Note : Attempt all Sections as directed.

Section—A　　　　　　1 each

(Objective/Multiple Choice Questions)

Note : Attempt all questions.

Choose the correct answer :

1. Which commands are used to specify settings of an .aspx file ?

    (a) Class

    (b) Directives

    (c) Events

    (d) Validation

P. T. O.

2. Which of the following directive is used to link an assembly to a page or user control ?

    (a) @Page

    (b) Import

    (c) @Assembly

    (d) @refrence

3. Which of the following is not an ASP.NET page event ?

    (a) init

    (b) Load

    (c) Import

    (d) None of the above

4. The .... is the execution engine for .NET applications and servers as the interface between .NET applications and the operating system.

    (a) Common Language Specification (CLS)

    (b) Common Language Runtime (CLR)

    (c) Common Type System (CTS)

    (d) Framework Class Library (FCL)

5. .... is a code that consists of CPU and platform-independent set of instructions, which can be easily converted to native code.

    (a) JIT

    (b) FCL

    (c) DLL

    (d) MSIL

6. The .... namespace includes classes and interfaces that return information about types, methods and fields.

    (a) System

    (b) System security

    (c) System.data

    (d) System.reflection

7. Which is not a main component of the visual studio IDE ?

    (a) Start Menu

    (b) Tool Box

    (c) Designer Window

    (d) Solution Explorer

8. .NET framework is an internal .... component that supports the execution of applications created by using various programming languages.

    (a) Internet

    (b) Windows

    (c) Hardware

    (d) Language

9. Which of the following is a basic data type in VB.NET ?

    (a) Boolean

    (b) Byte

    (c) Char

    (d) All of the above

10. The system.systemException class is the base class for all predefined system exception in VB.NET.

    (a) True

    (b) False

11. .... causes the loop to continue with the next interaction after skipping any statements in between :

    (a) Loop

    (b) Exit

    (c) Break

    (d) Continue

12. An .... is a group of contiguous or related data items that shar a common name.

    (a) Operator

    (b) Integer

    (c) Exponential

    (d) Array

13. The controls available in the toolbox of the .... are used to create the user interface of a web based application.

    (a) Microsoft Visual Studio IDE

    (b) Application Window

    (c) Web forms

    (d) None of the above

14. Which of the following is the root of the .NET type hierarchy ?

(a) System.Object

(b) System.Base

(c) System.Root

(d) System.Parent

15. What does XML stands for ?

(a) Extra Modern Link

(b) Extensible Markup Language

(c) Example Markup Language

(d) X-Markup Language

16. Is it easier to process XML than HTML ?

(a) Yes

(b) No

(c) Sometimes

(d) Can't say

17. Which of the following jobs is not performed by Garbage collector ?

(a) Freeing memory on the stack

(b) Avoiding memory leaks

(c) Closing unclosed database collections

(d) Closing unclosed files

P. T. O.

18. To create your application on a remote server which option you will choose in ASP.NET ?

(a) Fill system

(b) FTP

(c) HTTPs

(d) None of the above

19. .... object is used to fill a Dataset/Data Table with query results in ADO.NET.

(a) DataReader

(b) DataSet

(c) DataAdapter

(d) DataTable

20. The main features of dot connect for SQL server include ....

(a) Extra data binding capacities

(b) Ability of monitoring query execution

(c) Supports the latest versions of SQL server

(d) All of the above

                 Section—B   2 each

         (Very Short Answer Type Questions)

Note : Attempt all questions.

1. What is CLR ?

2. What do you know about MSIL ?

3. What is the components of .NET ?

4. What is an assembly ?

5. Is ASP.NET different form ASP ? If yes, explain how ?

6. Explain how you can create and use an array in .NET.

7. What is state management in ASP.NET ?

8. What are the different validators in ASP.NET ?

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

10. What is DataReader Object ?

Section—C   3 each

(Short Answer Type Questions)

Note : Attempt all questions in 75 words each.

1. Explain the cross language.

2. Explain the garbage collection process.

3. Define XML.

4. Explain the MDI application.

5. Describe the reading and writing XML files.

6. What are ASP.NET security controls ?

7. Explain client side and sever side controls in web forms.

8. What are the data providers in ADO.NET framework ?

9. What is the difference between ADO and ADO.NET ?

10. What are the benefits of ADO.NET ?

Section—D   6 each

(Long Answer Type Questions)

Note : Attempt all questions.

1. Draw and explain .NET framework architecture.

Or

Draw and explain various components of CLR.

2. Why are windows applications beneficial ? Discuss benefits of Window forms.

Or

Write a program to enter any number and check whether is palindrome or not.

3. Write short notes on the following :

(a) Class

(b) Interface

(c) Enumerations

Or

Explain the monitoring and managing window process.

4. Write ASP.NET code display selected elements from the checkBoxList on a lable control. Elements on the lable must be separated by a whitespace.

Or

Describe various categories of web control in ASP.NET.

5. Describe display data on data grid in detail.

Or

Discuss the components of ADO.NET on which data Access is relies.

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