

**2020**

**Time : 3 hours**

**Full Marks : 80**

**Candidates are required to give their answers in their own words as far as practicable.**

**The questions are of equal value.**

**Answer five questions, in which**

**Q. No. 1 is compulsory.**

**1. Choose the correct alternative of the following :**

**(a) The .NET class library :**

**(i) Uses namespaces to manage all of the classes**

**(ii) Contains over 25000 classes**

**(iii) Both (i) and (ii)**

**(iv) Has the system. Form namespaces for classes from other classes**

**( Turn over )**

(b) Data types are differentiated on the basis of :

- (i) The way of storage
- (ii) The type of operations
- (iii) The type of operators
- (iv) Both (i) and (ii)

(c) Which of the following block of VB. NET is used to execute a given set of statements, whether an exception is thrown or not thrown ?

- (i) Try
- (ii) Catch
- (iii) Finally
- (iv) Throw

(d) Visual Studio .NET provides which feature :

- (i) Debugging
- (ii) Application deployment
- (iii) Syntax checking
- (iv) All of these

(e) The \_\_\_\_\_ enable us to pass data between a program and a class :

- (i) Functions
- (ii) Properties
- (iii) Procedures
- (iv) Variables

(f) Which task is accomplished in the code editor ?

- (i) Adding forms to the project
- (ii) Adding controls to the form
- (iii) Adding controls to the title
- (iv) Adding event procedures to the form

(g) A window that lists the solution name, the project name and all the forms used in the project :

- (i) Properties Window
- (ii) Solution Explorer



- (iii) Windows Form Designer
  - (iv) Project Window
- (h) Which of the following access modifier specifies that a property or procedure overrides an identically named property or procedure inherited from a base class ?
- (i) Overrides
  - (ii) Overridable
  - (iii) Param Array
  - (iv) Partial
2. Describe the concept of event driven programming. Also explain the IDE of Visual studio.
3. Describe the architecture of CLR. How compilation process is done on .net ?
4. What do you mean by Menu Editor in VB ? How will you create a toolbar and status bar in VB ? Explain the structure of MDI.
5. What is OOPS ? Explain the key concepts of OOPS.

6. What do you mean by BV environment ? Explain Toolbox. Properties window, Form designer and Form layout in details.
7. Explain each stage of Program development life cycle in details.
8. Write a function using C#/VB. Net :
- (a) To input any number and check the prime number or not
  - (b) To find L. C. M. of two given number
9. Write short notes on any **two** of the following :
- (a) CLS
  - (b) Garbage collection
  - (c) Method overloading
  - (d) Polymorphism

