

B.Sc. (Part-III) Semester—V Examination
COMPUTER APPLICATIONS / INFORMATION TECHNOLOGY
(Programming in C#)

Time : Three Hours]

[Maximum Marks : 80

N.B. :- Attempt all questions.

- I. (a) Fill in the blanks :
- (i) All C# applications begin execution by calling the _____ method.
 - (ii) C# does not support _____ constructors.
 - (iii) Arrays in C# are _____ objects.
 - (iv) C# treats the multiple catch statements like cases in a _____ statement. 2
- (b) Choose the correct alternative :
- (i) Inheritance is _____ in nature.
 - (a) Commutative
 - (b) Transitive
 - (c) Associative
 - (d) Iterative
 - (ii) The point at which an exception is thrown is called the _____.
 - (a) Default Point
 - (b) Calling Point
 - (c) Invoking Point
 - (d) Throw Point
 - (iii) A local variable _____.
 - (a) Can be used anywhere in the program
 - (b) Is declared within a method
 - (c) Must accept a class
 - (d) Represent a class object

- (iv) C# supports a technique known as _____ which allows a method to specify explicitly the name of the interface it is implementing.
- (a) Method Implementation
 - (b) Implicit Interface Implementation
 - (c) Explicit Interface Implementation
 - (d) Iterative Interface Implementation 2
- (c) Answer the following in **ONE** sentence each :
- (i) What are literals ?
 - (ii) What is a Conditional Operator ?
 - (iii) What is OOPs ?
 - (iv) What is an Interface ? 4
2. (a) Explain the .Net framework in detail. 6
- (b) Explain the environment of C# Programming. 6
- OR**
3. (a) What are the various characteristics of C# Programming ? Explain in detail. 6
- (b) Explain the origin of .Net Technology. 6
4. (a) What do you understand by comments ? Explain with example. 6
- (b) Explain :
- (i) Constant
 - (ii) Scope of variable. 6
- OR**
5. (a) Explain namespace classes in detail with program example. 6
- (b) Explain the method for initialization and declaration of variable with example. 6
6. (a) Explain :
- (i) Relational Operators
 - (ii) Conditional Operators. 6
- (b) Explain if else statement with a program example. 6

OR

7. (a) Explain :
- (i) Bitwise Operators
 - (ii) Special Operators. 6
- (b) Explain 'for' statement with program example. 6
8. (a) What do you understand by method overloading ? Explain in detail. 6
- (b) Explain array class with program example. 6

OR

9. (a) Explain method invoking in detail. 6
- (b) How strings are inserted using systems ? Explain with program example. 6
10. (a) Explain the difference between classes and structs. 6
- (b) Explain nesting of classes in detail. 6

OR

11. (a) What do you understand by constructors ? Explain in detail. 6
- (b) Explain copy constructor in detail. 6
12. (a) Explain explicit interface implementation in detail. 6
- (b) Explain Delegate and Delegate methods. 6

OR

13. (a) Explain the concept of operator overloading in detail. 6
- (b) Explain multicast delegates in detail. 6

