

B.Sc. Part—III (Semester—V) Examination
5S : COMPUTER APPLICATIONS/INFORMATION TECHNOLOGY
(Programming in C #)

Time : Three Hours]

[Maximum Marks : 80

- I. (a) Fill in the blanks :
- (i) C# has _____ operator useful for making two way decisions.
 - (ii) A _____ is an identifier that denotes a storage location.
 - (iii) _____ variables are visible only in the block they are declared.
 - (iv) The methods that have the same name but different parameter lists and different definitions is called _____.
- 2
- (b) Choose the correct alternatives :
- (i) An _____ is a group of contiguous or related data items that share a common name.

(a) Operator	(b) Exponential
(c) Integer	(d) Array
 - (ii) C# does not support :

(a) Abstraction	(b) Polymorphism
(c) Multiple inheritance	(d) Inheritance
 - (iii) A _____ is any valid C# variable ending with a colon.

(a) goto	(b) Label
(c) logical	(d) Bitwise
 - (iv) The character pair ? : is a _____ available in C#.

(a) Unary operator	(b) Ternary operator
(c) Decision operator	(d) Functional operator
- 2
- (C) Answer the following in **one** sentence each :
- (i) What is an Operator ?
 - (ii) What is a 2D Array ?
 - (iii) What is a Variable ?
 - (iv) What is Switch Statement ?
- 4

2. (a) Compare C++ with C# programming language. 6
(b) Explain the .Net strategy in detail. 6

OR

3. (a) Explain the history of C# programming language. 6
(b) Explain the application of C# programming language over other programming language. 6
4. (a) Explain command line argument in detail. 6
(b) Explain the following terms :
(i) Boxing
(ii) Unboxing. 6

OR

5. (a) Explain Maths function with program example. 6
(b) Explain the following terms :
(i) Value type
(ii) Reference type. 6
6. (a) Explain arithmetic expressions with program example. 6
(b) Explain the if else ladder statement. 6

OR

7. (a) Explain operator precedence and associativity in detail. 6
(b) Explain while and do while statements. 6
8. (a) Explain the method parameters in detail. 6
(b) Explain methods for comparing strings in detail. 6

OR

9. (a) What do you understand by Variable Size Array ? Explain in detail. 6
(b) Explain various string handling methods in detail. 6

10. (a) Explain the process of enumerator initialization with program example. 6
(b) Compare static constructor with private constructor. 6

OR

11. (a) What are common program errors ? Explain in detail. 6
(b) What are indexers ? Explain in detail. 6
12. (a) Explain inheritance with program example. 6
(b) Explain overloading comparison operator in detail. 6

OR

13. (a) Explain abstract class and interface in detail. 6
(b) Explain standard numeric format and custom numeric format. 6

