Total No. of Questions : **12** ]　　　　　　　　[ Total No. of Printed Pages : **3**

# SCA–271

## B.C.A. Part-III Due of Part-II (Supplementary) Examination, 2022

## C#

### Paper : BCA – 206 (B)

*Time : 1½ Hours* ]　　　　　　　　　　　　　　[ *Maximum Marks : 70*

**Section–A**　　　　　　　**(Marks : 2 × 10 = 20)**

*Note* :–　Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

**Section–B**　　　　　　　**(Marks : 4 × 5 = 20)**

*Note* :–　Answer any *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **4** marks.

**Section–C**　　　　　　　**(Marks : 10 × 3 = 30)**

*Note* :–　Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

**Section–A**

1. (i)　Define Object.

　(ii)　What is the difference between 'ref' and 'out' keywords ?

　(iii)　What is 'this' C# ?

(iv)  What do you mean by comments in C# ?

(v)   What do you mean by 'Nullable types' in C# ?

(vi)  What are partial classes ?

(vii) What are Indexers ?

(viii) What is name space ?

(ix)  What is garbage collection in C# ?

(x)   What is equal( ) method in C# ?

## Section–B

2.  Write a program to reverse the order of given word in C#.

### Or

Write a program to check if a given string is palindrome or not.

3.  Write a program to check whether the given number is even or odd.

### Or

Write a program to check whether the given number is positive or negative.

4.  Differentiate between C++ and C#.

### Or

Differentiate between abstract class and interface.

5.  What are types of class in C# ? Explain with suitable examples.

### Or

What is the difference between late binding and early binding ?

6.  Differentiate between Java and C#.

### Or

Give example of object and class in form of program.

7. Explain the following :

(i) Stack <I>

(ii) Linked list <I>

*Or*

Give syntax for :

(i) If-else

(ii) While loop

(iii) For loop

(iv) Switch

## Section–C

8. Explain Operators in detail.

9. Differentiate between constructor and deconstructor in detail.

10. Describe the following with examples :

(i) Delegates

(ii) Events

(iii) File I/O

(iv) Aggregation

11. Write short notes on the following :

(i) Attributes

(ii) Inheritance and its types

12. Differentiate between member overloading and member overriding with examples.

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