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BCA (IV)-404

**2018**

*Time : 3Hrs*

*Full Marks : 80*

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

*All questions carry equal marks.*

*Answer five questions in which Q. No. 1 is compulsory.*

1. Choose the correct answer from the following:

(a) What is MSIL:

- (i) Multi socket interface library
- (ii) Microsoft intermediate language
- (iii) Microsoft interface language
- (iv) All of the above

(b) Which of the following characters ends every C# statement?

- (i) dot(.)
- (ii) colon(:)
- (iii) semicolon(;) |
- (iv) None of these

(c) The ..... operator is used to create objects of a class dynamically.

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Answer

- (i) New
  - (ii) Malloc
  - (iii) Calloc
  - (iv) None of these
- (d) A property with a *get* accessor only is called a ..... property.
- (i) Write only
  - (ii) Read only
  - (iii) Both (i) and (ii)
  - (iv) None of these
- (e) A ..... statement is used within loops to end the execution of the current iteration and proceed to the next iteration :
- (i) Break
  - (ii) Exit
  - (iii) Continue
  - (iv) None of these
- (f) An array Element is accessed using
- (i) index number
  - (ii) dot operator
  - (iii) the member name
  - (iv) None of these



- (g) A function argument is :
- (i) a variable in the function that receives a value from the calling program
  - (ii) a way that function resist accepting the calling program's value
  - (iii) a value sent to the function by calling program
  - (iv) None of these
- (h) What is boxing?
- (i) Encapsulating an object in a value type
  - (ii) Encapsulating a copy of an object in a value type
  - (iii) Encapsulating a copy of a value type in an object
  - (iv) None of these
2. (a) What is .NET framework? State the features of C#.
- (b) What are the various category of variables defined in C# based on their scope.
3. Explain the different types of parameters used in a method definitions? Differentiate static & non static members of class.
4. (a) Write a program in C# to display the transpose of a matrix.
- (b) Write a program to read a three digit number and print the number in words (for example the number 123 is to be printed as one two three). Use switch case control structure.

5. What is Exception handling? Explain the statements that are used to handle exception in a C# program.
6. What is namespace? What are the features of creating it? Explain the syntax of accessing a member of namespace.
7. What is Inheritance? What are various types of Inheritance, give the syntax of each? Explain the various access specifiers.
8. What is delegate? How is it declared what are the situations in which delegates are preferred?
9. In C# how can we prevent a class from being further subclassed and a method from further overridden? Explain in details smart fields and sealed classes.
- 23/12/18 ~ 10. Write differences between in any four of the following:
  - (a) Structure and Class
  - (b) Regular array and Jagged array
  - (c) Abstraction and Encapsulation
  - (d) Static binding and Dynamic binding
  - (e) Indexer and Properties
  - (f) Abstract class and Interface

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