

S.No. : 187

BCA2501

No. of Printed Pages : 05

Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 21151 Roll No. 

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## BCA Examination 2018-19

(Fifth Semester)

.NET FRAMEWORK AND C#

*Time : Three Hours]*

*[Maximum Marks : 60*

Note :- Attempt all questions.

### SECTION - A

1. Attempt all parts of the following :  $8 \times 1 = 8$
- List the components of .Net framework.
  - List out the different types of applications created in .Net.
  - Explain the structure of C# program.
  - What are the differences between value types and reference types?

*[P. T. O.*

- (e) Explain GAC.
- (f) List the types of cookies with example.
- (g) Explain timer and progress bar controls.
- (h) Differentiate data set and data reader.

### SECTION – B

2. Attempt any two parts of the following :  $2 \times 6 = 12$
- (a) Explain VES (Virtual Execution System) with the help of diagram.
  - (b) Write a C# program that determines a student's grade. The program will read three types of scores (quiz score, mid-term score, and final score) and determine the grade based on the following rules :
    - (i) If the average score  $\geq 90\% \Rightarrow$  grade = A
    - (ii) If the average score  $\geq 70\%$  and  $< 90\% \Rightarrow$  grade = B
    - (iii) If the average score  $\geq 50\%$  and  $< 70\% \Rightarrow$  grade = C
    - (iv) If the average score  $\leq 50\% \Rightarrow$  grade = F

- (c) Describe the following in detail :
- (i) Types of assemblies
  - (ii) Global ASAX files
- (d) Explain the following web services in brief :
- (i) UDDI
  - (ii) DISCO

### SECTION – C

Note :- Attempt all questions.  $5 \times 8 = 40$

3. Attempt any two parts of the following :  $5 \times 2 = 10$

- (a) Describe the characteristics of .Net architecture with examples.
- (b) Discuss in detail about the components and services of CLR.
- (c) Explain the following in brief :
  - (i) MSIL
  - (ii) JIT
  - (iii) GC
  - (iv) Base Classes
  - (v) MS .Net Name Spaces

**[P. T. O.]**

4. Attempt any two parts of the following :  $5 \times 2 = 10$
- (a) Explain the types of inheritance available and write a C# program for multilevel inheritance.
  - (b) Explain the following with examples :
    - (i) Decision making statements
    - (ii) Looping statements
    - (iii) Branching statements
  - (c) Explain the following with C# program :
    - (i) Delegates
    - (ii) Indexers
5. Attempt any two parts of the following :  $5 \times 2 = 10$
- (a) Explain the following in brief :
    - (i) Multithreading
    - (ii) Stream Classes
  - (b) Describe state management with the help of example and also explain types of it.
  - (c) Explain the following with C# code :
    - (i) Cross page posting
    - (ii) Web configuration file
    - (iii) Machine configuration file

- (iv) Files
- (v) Session

6. Attempt any two parts of the following :  $5 \times 2 = 10$

- (a) Explain a skeletal form based windows program step by step.
- (b) Describe the following with the help of examples :
  - (i) Data set
  - (ii) Data reader
  - (iii) Data adapter
  - (iv) Data table
  - (v) Debugging
- (c) Create student information ASP.Net page with following details :
  - (i) Design student information page with Name, Roll No., Course, Year, Section, Email ID, Mobile No.
  - (ii) Write ASP.Net database connectivity C# program code.
  - (iii) Use various validation controls if necessary to build the web page.

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