Reg. No. \_\_\_\_\_\_\_\_\_\_\_\_



**End Semester Examination – Nov / Dec – 2019**

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| **Code :** | **16CA2020** | **Duration :** | **3hrs** |
| **Sub. Name :** | **.NET PROGRAMMING USING C#** | **Max. Marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Explain classes and objects with a suitable example. | CO2 | 10 |
| b. | Explain the operators in C# with suitable examples. | CO2 | 10 |
| **(OR)** | | | | |
| 2. | a. | Explain the iteration statements in C# with suitable examples. | CO1 | 10 |
| b. | Explain the salient features of .Net framework. | CO1 | 10 |
|  |  |  |  |  |
| 3. | a. | Explain the data types in C#.Net. | CO1 | 10 |
|  | b. | Write a program to find the factorial of a number using recursion. | CO6 | 10 |
| **(OR)** | | | | |
| 4. | a. | Explain the role of the pillars of OOP in C# language. | CO4 | 10 |
|  | b. | Demonstrate the usage of constructors using a sample program. | CO5 | 10 |
|  |  |  |  |  |
| 5. | a. | Explain switch statement with an example. | CO1 | 10 |
|  | b. | Write a program to generate Fibonacci series. | CO6 | 10 |
| **(OR)** | | | | |
| 6. | a. | Explain any three collections in C#? | CO1 | 10 |
|  | b. | What is the use of generic programming? Demonstrate with an example. | CO1 | 10 |
|  |  |  |  |  |
| 7. | a. | Explain the different types of constructors with examples. | CO2 | 10 |
|  | b. | How does C# handle exceptions? | CO2 | 10 |
| **(OR)** | | | | |
| 8. | a. | How do you use inheritance for extending existing code? | CO2 | 10 |
|  | b. | Explain any five controls in Windows forms. | CO2 | 10 |
|  | | **Compulsory**: |  |  |
| 9. | a. | Demonstrate the usage of entity framework. | CO5 | 10 |
|  | b. | Create a simple database with five fields and perform insert, select and delete operations. | CO6 | 10 |