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

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**End Semester Examination – Nov/Dec – 2018**

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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 the features of Object oriented Programming | CO2 | 5 |
| b. | What is CLR? List out it’s functions. | CO1 | 5 |
| c. | What is .Net framework? Draw and explain. | CO1 | 10 |
| (OR) | | | | |
| 2. | a. | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the founder of C# Language. | CO2 | 1 |
| b. | Explain .Net Framework Class Library | CO1 | 4 |
| c. | Write and explain a test program using Console application. | CO3 | 5 |
| d. | What is IDE? Explain the windows of the IDE. | CO1 | 10 |
|  |  |  |  |  |
| 3. | a. | List out the categories of Datatypes. | CO6 | 2 |
|  | b. | What is floating point data type? List the various floating point data types. | CO6 | 4 |
|  | c. | Explain Operator precedence. | CO2 | 4 |
|  | d. | Explain DateTime Reference Object with an example | CO6 | 10 |
| (OR) | | | | |
| 4. | a. | The conversion type d means  i) Integer ii) Float iii) Exponential iv) decimal | CO2 | 1 |
|  | b. | Define: i) Operator ii) Expression | CO2 | 4 |
|  | c. | What are the different types of Program errors? | CO2 | 5 |
|  | d. | Explain String formatting and methods. | CO6 | 10 |
|  |  |  |  |  |
| 5. | a. | List out the different relational operators | CO6 | 2 |
|  | b. | How will you access Array elements? | CO5 | 3 |
|  | c. | Differentiate Array with Arraylist. | CO5 | 5 |
|  | d. | Write a Program to calculate grade of a student with switch statement. | CO3 | 10 |
| (OR) | | | | |
| 6. | a. | Draw a flow chart of While Loop. | CO6 | 2 |
|  | b. | What is conditional operator? Explain it with syntax. | CO2 | 4 |
|  | c. | What is Jagged Arrays? | CO5 | 4 |
|  | d. | How will you create a Listview? Explain with example. | CO5 | 10 |
|  |  |  |  |  |
| 7. | a. | List and explain the different access modifiers. | CO6 | 5 |
|  | b. | Design a program with radio button and explain how it works. | CO5 | 5 |
|  | c. | Explain Inheritance with an example. | CO2 | 10 |
| (OR) | | | | |
| 8. | a. | What is Bug? Explain. | CO4 | 5 |
|  | b. | Explain UML Light with its general format. | CO4 | 5 |
|  | c. | Create a simple calculator by implementing the use of classes and objects. | CO2 | 10 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | What is Database? | CO4 | 2 |
|  | b. | Why is Data normalization designed? List out its different forms | CO4 | 4 |
|  | c. | Discuss about the SQL commands in the database application. | CO3 | 4 |
|  | d. | Write the steps of data access from the database in a disconnected environment. Explain with an example. | CO5 | 10 |