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

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

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| **Code :** | **16CA2019** | **Duration :** | **3hrs** |
| **Sub. Name :** | **PROGRAMMING IN PYTHON** | **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. | What is IDLE? | CO1 | 2 |
| b. | Explain the different List methods used. | CO5 | 5 |
| c. | List out the relational and logical operators. | CO1 | 5 |
| d. | Explain if-elif-else statement with example. | CO1 | 8 |
| (OR) | | | | |
| 2. | a. | Explain for loop with syntax | CO1 | 5 |
| b. | Explain the features of Python. | CO1 | 5 |
| c. | How to create a Tuple? Differentiate it with Lists. | CO5 | 10 |
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| 3. | a. | Define a class in python. | CO4 | 3 |
| b. | What is Generator? Explain. | CO5 | 3 |
| c. | Explain String formatting | CO2 | 4 |
| d. | Explain user defined function by generating a simple calculator. | CO4 | 10 |
| (OR) | | | | |
| 4. | a. | Define function with its syntax. | CO4 | 4 |
| b. | List out the string methods and explain with example. | CO2 | 6 |
| c. | Explain Exception handling with an example. | CO4 | 10 |
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| 5. | a. | What is anchor? List the possible constants used for anchor attribute | CO5 | 5 |
| b. | How will you read and write lines from a file in python | CO5 | 5 |
| c. | Design a GUI application with atleast 10 different widgets. | CO5 | 10 |
| (OR) | | | | |
| 6. | a. | Discuss about dimension attribute with example. | CO5 | 5 |
| b. | How will you add a menu bar in GUI application? | CO5 | 5 |
| c. | Explain the file operations in python with example | CO5 | 10 |
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| 7. | a. | What is Primary key? | CO1 | 2 |
| b. | What are the server socket methods available in python? | CO6 | 3 |
| c. | What is the use of cursor method? What are the cursor object methods used? | CO6 | 5 |
| d. | How will you establish connection to use the database system? Explain with an example | CO6 | 10 |
| (OR) | | | | |
| 8. | a. | What is relational database? | CO6 | 2 |
| b. | What is a Socket? | CO6 | 3 |
| c. | What are the connection object methods used in python | CO6 | 5 |
| d. | Write the steps involved to create a simple socket client. Explain with example. | CO6 | 10 |
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|  | | **Compulsory**: |  |  |
| 9. | a. | What is Distutils? | CO5 | 2 |
| b. | How will you create and run a setup py file. | CO6 | 3 |
| c. | How will you import java class in Python? Explain with an example. | CO6 | 5 |
| d. | How will create a web page using Python? Write a simple python script and explain. | CO3 | 10 |