| PRN: | | Course Code : | BCA204 |
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Second Year **BCA** End Semester Examination Summer 2024

# Programming with Python

Day and Date: 24 MAY 2024 , Friday Max Marks: **100**

Time : 2:00 to 5:00 pm Duration: **03** hrs

Instructions: All questions are compulsory.

| | | | Marks | Bloom's Level | CO |
|---|---|---|---|---|---|
| Q.1 | | **Attempt the following** | | | |
| | a) | Illustrate looping statement in python for range, set and dictionary with an example | 08 | L1 | CO1 |
| | b) | Discuss file handling in python and different modes of file handling in python programming | 08 | L2 | CO2 |
| | | OR | | | |
| | b) | List different operations on tuple ,list in python ,explain each with example | 08 | L2 | CO1 |
| Q.2 | | **Attempt the following** | | | |
| | a) | Describe the NumPy with an example of 1D array slicing. | 08 | L1 | CO2 |
| | b) | Define inheritance and explain in brief single inheritance with an example. | 08 | L2 | CO3 |
| | | OR | | | |
| | b) | Explain method Overloading with an example. | 08 | L2 | CO2 |
| Q.3 | | **Attempt any two from the following** | | | |
| | a) | Define stack and explain operations on stack with an example. | 08 | L2 | CO3 |
| | b) | Explain sorting in queue with an example | 08 | L3 | CO4 |
| | c) | Develop python program to remove element from a queue by using dequeue | 08 | | |
| Q.4 | | **Attempt any two from the following** | | | |
| | a) | Illustrate looping statement in python. | 08 | L3 | CO4 |
| | b) | Describe Linear search with an example | 08 | L4 | CO3 |
| | c) | Write a note on constructor with an example | 08 | L3 | CO4 |
| Q.5 | | **Attempt any Two of the following** | | | |
| | a) | Illustrate polymorphism and explain concept of operator overloading | 09 | L3 | CO4 |
| | b) | Describe inheritance in python and explain multilevel inheritance | 09 | L1 | CO1 |
| | c) | Describe OOP characteristics with proper example | 09 | L2 | CO2 |
| Q.6 | | **Attempt any Two of the following** | | | |
| | a) | Explain Array implementation in stack with a proper explanation | 09 | L2 | CO1 |
| | b) | Explain merge sort technique with an example | 09 | L2 | CO1 |
| | c) | Explain in brief operators in python with an example | 09 | L1 | CO2 |

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