

Hall Ticket Number :

**R-17**

**Code: 7G154**

III B.Tech. I Semester Supplementary Examinations June 2024

**Python Programming**  
(Computer Science and Engineering)

Max. Marks: 70

Time: 3 Hours

Answer any five full questions by choosing one question from each unit (5x14 = 70 Marks)

\*\*\*\*\*

**UNIT-I**

- |  | Marks | CO  | BL |
|--|-------|-----|----|
| 1. a) Convince the use of Command line arguments in python | 7M    | CO1 | L5 |
| b) Justify the use of assert statement in python.          | 7M    | CO1 | L5 |
| <b>OR</b>  |       |     |    |
| 2. a) Write about the features of python.                  | 7M    | CO1 | L2 |
| b) Describe about input and output statements in python    | 7M    | CO1 | L1 |

**UNIT-II**

- |   |     |     |    |
|---|-----|-----|----|
| 3. List the methods to process lists in python and illustrate them with the suitable example. | 14M | CO2 | L1 |
| <b>OR</b>   |     |     |    |
| 4. Write a python program to replacing a string with another string                           | 14M | CO2 | L3 |

**UNIT-III**

- |  |     |     |    |
|--|-----|-----|----|
| 5. Demonstrate User-Defined Exception in python  | 14M | CO3 | L3 |
| <b>OR</b>  |     |     |    |
| 6. Write a python program to invoke a method on an object without knowing type (or class) of the object. | 14M | CO3 | L5 |

**UNIT-IV**

- |  |     |     |    |
|--|-----|-----|----|
| 7. How 'with' statement can be used while opening a file? Explain the advantage of using it. | 14M | CO4 | L4 |
| <b>OR</b>  |     |     |    |
| 8. a) Write about the operation on file.   | 7M  | CO4 | L2 |
| b) Assess the usage of pickle in python  | 7M  | CO4 | L5 |

**UNIT-V**

- |   |     |     |    |
|---|-----|-----|----|
| 9. a) Differentiate Process and Thread.   | 7M  | CO5 | L3 |
| b) Discuss about concurrent programming and global interpreter lock (GIL) in python | 7M  | CO5 | L3 |
| <b>OR</b>   |     |     |    |
| 10. Prove that multitasking is achievable using Multiple Threads                    | 14M | CO5 | L5 |

\*\*\*