*R20 Regulation* *Subject code: 3O6AE*

# TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

## B.Tech VI Semester Supplementary Examinations, April 2026

## PYTHON PROGRAMMING

*(CE)*

*Maximum Marks: 70* Date: 25.04.2026 Duration: 3 hours

**Note:** **1.This question paper contains two parts A and B.**
**2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.**
**3. Part B consists of 5 Units. Answer any one full question from each unit.**
**4. Each question carries 10 marks and may have a, b, c, d as sub questions.**

Part-A

| All the following questions carry equal marks (10X2M=20 Marks) | | Marks | CO | BTL |
|---|---|---|---|---|
| 1 | List keywords in Python. | 2M | 1 | L1 |
| 2 | List some of the keywords in python? | 2M | 1 | L1 |
| 3 | Pandas stand for in Python expressions? | 2M | 2 | L1 |
| 4 | What's the purpose of the "pass" statement in Python? | 2M | 2 | L1 |
| 5 | Define lambda function? Write syntax for lambda function. | 2M | 3 | L1 |
| 6 | Name a mutable data structure in Python. | 2M | 3 | L1 |
| 7 | What is meant by module in python? | 2M | 4 | L1 |
| 8 | How do you import an entire module in Python? | 2M | 4 | L1 |
| 9 | What is the primary distinction between an error and an exception in Python? | 2M | 5 | L1 |
| 10 | What are user-defined exceptions in Python? | 2M | 5 | L1 |

Part-B

| Answer All the following questions. (5X10M=50Marks) | | Marks | CO | BTL |
|---|---|---|---|---|
| 11 | List and explain any four prominent features of Python, providing an example for each. | 10M | 1 | L2 |
| | OR | | | |
| 12 | a) Write the history of Python.<br>b) How do you run a python script in various modes. Explain with a python program. | 5M<br>5M | 1 | L2 |
| 13 | Discuss the difference between the '==' operator and the 'is' operator in Python with suitable examples. | 10M | 2 | L2 |
| | OR | | | |
| 14 | Write about membership & identity operators in python with suitable examples. | 10M | 2 | L2 |
| 15 | Explain the concept of fruitful functions in Python and the importance of returning values. | 10M | 3 | L2 |
| | OR | | | |
| 16 | Elaborate on the use of default arguments in Python functions and their impact on function calls. | 10M | 3 | L2 |

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| 17 | Explain the role of the import statement in Python and how it facilitates namespace management. | 10M | 4 | L2 |
| | OR | | | |
| 18 | a) What are modules in Python? Explain.<br>b) Explain in details about namespaces and scoping. | 4M<br>6M | 4 | L2 |
| 19 | List and explain the different phases involved in object-oriented programming language. | 10M | 5 | L2 |
| | OR | | | |
| 20 | Explain the concept of Exception Handling in Python with suitable program. | 10M | 5 | L2 |