R18 Regulation *Subject code:2P4EC*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech IV Semester Supplementary Examinations, June 2026

PYTHON PROGRAMMING

(CSE)

Maximum Marks: 70 Date:15.06.2026 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 the differences between python2 and python3?	2M	1	L1
2	What's the importance of comments in programming? How do we write comments in python?	2M	1	L1
3	What is 'pass' statement?	2M	2	L1
4	Define iterable and iterator objects?	2M	2	L1
5	Differentiate between dictionary and list?	2M	3	L1
6	Define lambda function? Write syntax for lambda function.	2M	3	L1
7	List the file opening Modes.	2M	4	L1
8	Mention the usage of modules in Python Programming.	2M	4	L1
9	What is an error? Write different types of errors in python.	2M	5	L1
10	How to handle multiple exceptions with single except clause.	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	a) Who uses python today? What are Python's technical strengths? b) Write the history of Python.	5M 5M	1	L2
	OR			
12	Explain about the need for learning python programming and its importance.	10M	1	L2
13	a) Discuss about Python operators precedence with an example. b) Write a Python program that prints all the numbers from 0 to 50 except multiples of 10.	5M 5M	2	L2
	OR			
14	a) Describe Python control statements with appropriate examples. b) Write a python program to print the following pattern using looping statements	5M 5M	2	L2

	1 121 12321 1234321 123454321			
15	a) Discuss various type of arguments in Python? Justify your answer with sample programs. b) Write a Python program that interchanges the first and last characters of a given string.	5M 5M	3	L2
16	Write a Python program to sort a list of elements using the bubble sort technique.	10M	3	L2
17	How will you create a Package & import it? Explain it with an example program.	10M	4	L2
	OR			
18	Write a python program to find the mean and variance for the following data using scipy. [2,23,45,56,78,89,13,33,66,89]	10M	4	L2
19	a) List the various properties of a file briefly describing each of them. b) Write a Python program to demonstrate Multiple Inheritance.	5M 5M	5	L2
	OR			
20	a) How to handle exception in python explain in detail with suitable examples b) Write a python program using classes and objects to simulate result preparation system for 20 students. The data available for each student includes: Name, Rollno. and Marks in 3 subjects and also calculate percentage and grades for each student.	5M 5M	5	L2