R20 Regulation *Subject code: 3P5GB*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Supplementary Examinations, April 2026

PYTHON PROGRAMMING

(CSE(AI&ML))

Maximum Marks: 70 Date: 17.04.2026 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	Is python a "scripting language"? Justify your answer.	2M	1	L1
2	Distinguish between input()and raw_input()	2M	1	L1
3	Explain membership operators in python with suitable example.	2M	2	L1
4	Explain the syntax of while loop	2M	2	L1
5	What is fruitful function?	2M	3	L1
6	What is list comprehension	2M	3	L1
7	How to create a file in python?	2M	4	L1
8	Define package	2M	4	L1
9	What is the use of self keyword?	2M	5	L1
10	Distinguish between error and exception.	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	a) Differentiate between C++ and Python b) List out the keywords in python.	5M 5M	1	L2
12	Write in detail about the data types in python.	10M	1	L2
13	Write a python program to read two numbers from the user and display the result using bitwise & operator on the numbers.	10M	2	L2
	OR			
14	Explain control statements in python with suitable example.	10M	2	L2
15	Differentiate between list, tuple, set and dictionary with one example each.	10M	3	L2
	OR			
16	a) Define tuple and show how the tuple is immutable with different examples? b) Explain dictionary with suitable examples.	5M 5M	3	L2

17	a) Write the syntax to create, open and close a file? b) List out the different types of file access modes in python?	5M 5M	4	L2
18	Explain Numpy and Pandas in python with suitable example program.	10M	4	L2
19	a) Explain constructors in detail with an example. b) Explain method overriding with suitable example.	5M 5M	5	L2
20	Explain exception handling in detail.	10M	5	L2