R20 Regulation *Subject code:3P4HD*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech IV Semester Supplementary Examinations, June 2026

PYTHON PROGRAMMING

(CSE(DS))

Maximum Marks: 70 Date: 19.06.2026 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 applications of python.	2M	1	L1
2	List some of the keywords in python	2M	1	L1
3	Differentiate between list and tuple.	2M	2	L1
4	Differentiate between append () and extend () methods?	2M	2	L1
5	How to handle multiple exceptions with single except clause.	2M	3	L1
6	What is an error? Write different types of errors in python.	2M	3	L1
7	How to import a package in python program.	2M	4	L1
8	Mention the usage of modules in Python Programming.	2M	4	L1
9	Write about any two Widgets in Tkinter.	2M	5	L1
10	What are the different functions to retrieve rows from a table?	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	a) Write a python program to convert given decimal number into binary, octal and hexadecimal b) What is an Identifier? Mention the rules to define an identifier.	5M 5M	1	L2
	OR			
12	List and explain different arithmetic operators supported by Python. Discuss about their precedence and associativity with an example.	10M	1	L2
13	Consider the list std=[5,4,7,3,6,2] and write the python code to perform the following operations **i.**Insert an element 9 at the beginning of the list **ii.**Insert an element 8 at the end of list **iii.**Insert an element 8 at the index position 3 of list **iv.**Delete an element at the beginning of the list **v.**Delete an element at the end of the list **vi.**Delete an element at the index position 3 **vii.**Print the list in reverse order(end to start) **viii.**Delete all the elements of the list	10M	2	L2

	OR			
14	a) How to declare and call functions in Python programs? Illustrate with an example script? b) Write a Python program to print all prime numbers less than256.	5M 5M	2	L2
15	a) How does try-except statement work? Demonstrate with an example python code? b) Write a Python class to reverse a string word by word.	5M 5M	3	L2
	OR			
16	Examine how python supports regular expressions through 're' module with brief introduction and various built-in methods related to it.	10M	3	L2
17	Elaborate the process of designing your own modules with an appropriate example.	10M	4	L2
	OR			
18	Write Program to print the number of lines, words and characters present in the given file.	10M	4	L2
19	a) Briefly discuss about other GUI modules in python? b) Discuss about GUI Programming in Python? Explain how to create GUI application using Tkinter?	5M 5M	5	L2
	OR			
20	Briefly discuss about Object Relational Mapping (ORM) in python.	10M	5	L2