



R18 Regulation

Subject code:2P4EC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech IV Semester Supplementary Examinations, December 2025

PYTHON PROGRAMMING (CSE)

Maximum Marks: 70

Date: 23.12.2025

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	What happens if a semicolon (;) is placed at the end of a Python statement?	2M	1	L1
2	Describe type() method with example.	2M	1	L1
3	Define if...else statements in python.	2M	2	L1
4	What are membership operators? Give examples for usage?	2M	2	L1
5	List the properties of dictionary in python.	2M	3	L1
6	Distinguish between parameter and argument.	2M	3	L1
7	What are the attributes of file objects.	2M	4	L1
8	Write any two Differences between numpy and scipy?	2M	4	L1
9	Write different types of errors in python.	2M	5	L1
10	Write about data hiding in python with example program.	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) Write a Python program to evaluate exponential series. (Hint: $e^x = 1+x/1!+x^2/2!+x^3/3!+.....$) b) Write a python program to display characters of a given string in reverse order using for loop?	5M 5M	2	L2
OR				
14	a) Write about membership & identity operators in python with suitable examples.	5M	2	L2

	b) Write a Python program which iterates the integers from 1 to 50. For multiples of three print "Fizz" instead of the number and for the multiples of five print "Buzz". For numbers which are multiples of both three and five print "FizzBuzz".	5M		
15	a) Discuss about Default and variable length arguments each with two example programs. b) Write a Python Program to find out common elements in given lists.	5M 5M	3	L2
	OR			
16	Write a Python program to sort a list of elements using the bubble sort technique.	10M	3	L2
17	Write a Program to print the number of lines, words and characters present in the given file	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) Explain the concept of Exception Handling in Python with suitable program b) Write a Python class named Rectangle constructed by length and width and a method which will compute the area of a rectangle.	5M 5M	5	L2