



R20 Regulation

Subject code:3P5EB

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Supplementary Examinations, May 2025

PYTHON PROGRAMMING

(CSE)

Maximum Marks: 70

Date: 19.06.2025

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	Differentiate between compiled and interpreted languages?	2M	1	L1
2	List some of the keywords in python	2M	1	L1
3	Why * is called string repetition operator?	2M	2	L1
4	What is floor division or truncating division? Give example.	2M	2	L1
5	Distinguish between parameter and argument	2M	3	L1
6	List the properties of dictionary in python.	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	Write a python class which has two methods get_String and print_String. get_String accepts a string from the user and print_String print the string in uppercase.	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) 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	Explain about the need for learning python programming and its importance.	10M	1	L2
13	List and explain different arithmetic operators supported by Python. Discuss about their precedence and associativity with an example.	10M	2	L2
OR				
14	a) Write about membership & identity operators in python with suitable examples. b) Write a Python program which iterates the integers from 1 to 50. For multiples of three print "Three" instead of the number and for the multiples of five print "Five". For numbers which are multiples of both three and five print "Three Five".	5M 5M	2	L2

15	a) List the string testing methods with examples b) Discuss about scope of the variables in python functions.	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	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 and explain the different phases involved in object-oriented programming language. 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