



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 2024

PYTHON PROGRAMMING (CSE)

Maximum Marks: 70

Date: 10.12.2024

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 which carries 10M.
 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		CO	Bloom Tx
1	What happens if a semicolon (;) is placed at the end of a Python statement?	1	L1
2	Write type() method with example.	1	L1
3	Define if...else statements in python.	2	L1
4	What are membership operators? Give examples for usage	2	L1
5	Differentiate between append() and extend() methods?	3	L1
6	What is the purpose of global keyword in Python?	3	L1
7	What are the attributes of file objects.	4	L1
8	Write any two Differences between numpy and scipy?	4	L1
9	How to create a class in python?	5	L1
10	Write any two differences between Errors and Exceptions.	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
11	A. Who uses python today? What are Python's technical strengths? [5M] B. Write the history of Python. [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. [5M] B. Write a Python program that prints all the numbers from 0 to 50 except multiples of 10. [5M]	2	L2
OR			
14	A. Describe Python control statements with appropriate examples. [5M] B. Write a python program to print the following pattern using looping statements [5M]	2	L2

	1 121 12321 1234321 123454321		
15	A. Discuss various type of arguments in Python? Justify your answer with sample programs. [5M] B. Write a Python program that interchanges the first and last characters of a given string. [5M]	3	L2
	OR		
16	A. Write a python program illustrating how a function returns another function. [5M] B. Write a Python Program to find product of two matrices. [5M]	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 and explain different Object Oriented features supported by Python [5M] B. Write a python program to handle the Zero Division Error Exception. [5M]	5	L2
	OR		
20	A) List and explain the different phases involved in object-oriented programming language. [5M] B) Write a Python program to demonstrate Multiple Inheritance. [5M]	5	L2