R20 Regulation *Subject code: 3P5GB*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Supplementary Examinations, July 2024

PYTHON PROGRAMMING

(CSE (AI & ML))

Maximum Marks: 70 Date:22.07.2024 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.
4. Each question carries 10 marks and may have a, b, c, d as sub questions.

	Part-A	CO	Bloom Tx
All the following questions carry equal marks (10X2M=20 Marks)			
1	Define the two modes in Python.	CO1	2
2	Describe Indentation with an example.	CO1	2
3	Discuss about continue and pass statements	CO2	2
4	Write a program to find square root of a given number.	CO2	3
5	Define List. What does u mean by "Lists are mutable"?	CO3	2
6	Explain default arguments with examples.	CO3	2
7	How to import particular methods of a module ?	CO4	2
8	How to create a package in python?	CO4	2
9	Differentiate between Numpy and Pandas	CO5	4
10	What is a constructor?	CO5	2
	Part-B		
Answer All the following questions. (5X10M=50Marks)			Bloom Tx level
11	A. Explain various data types in python with example programs. (5) B. Write a program to Calculate the distance between two points. (5)	CO1	2 3
	OR		
12	A. Explain the various rules to be followed in variable declaration and Input output operations to get and store values in them. (7) B. List down the various python keywords. (3)	CO1	2 2
13	A. Illustrate with flow chart and syntax of conditional statements with examples. (5) B. Develop a program to find the largest among n given numbers (5)	CO2	2 3
	OR		
14	A. Explain the syntax and flow chart of the following loop statements (5) B. Write a python program to find if the given number is palindrome number or not. (5)	CO2	2 3
15	A.Define recursion and write a recursion program of your own. (5)	CO3	2 3

	B. Illustrate a program to swap the values of two variables without temporary variables. (5)		
	OR		
16	A. Describe in detail how to create a dictionary, key - value pairs and various operations such as addition, deletion, search of elements. (5) B. Explain the Scope of the Variables in a Function with Global and Local Variables. (5)	CO3	2 2
17	A. List out the various file operations in python. (5) B. Explain the usage of numpy and pandas packages. (5)	CO4	2 2
	OR		
18	A. Explain the usage of any two of these packages: iterator tools, scipy, matplotlib. (5) B. Text processing file functions. (5)	CO4	2 2
19	A. Differentiate Errors and Handling Exceptions with suitable Example. (5) B. Create a python class with overridden methods. (5)	CO5	2 3
	OR		
20	A. Explain data hiding. (5) B. How to create User Defined Datatypes. (5)	CO5	3 3