R20 Regulation *Subject code:* 3P5GB .

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Regular/Supplementary Examinations, February 2024

PYTHON PROGRAMMING

(CSE (AI&ML))

Maximum Marks: 70 Date:17.02.2024 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	What is the importance of Indentation.	CO1	2
2	What is the output of the following program? name="Abdul" age=80 marks=80.50 print(name) print(age) print(marks)	CO1	2
3	Define if...else statement.	CO2	2
4	What is pass statement?	CO2	2
5	Differentiate between Local and Global Variable.	CO3	4
6	What is Fruitful Functions?	CO3	2
7	What is File?	CO4	2
8	Define Namespacing.	CO4	2
9	Define Class and Object.	CO5	2
10	Define the term User-defined Exceptions.	CO5	2
	Part-B		
Answer All the following questions. (5X10M=50Marks)			Bloom Tx level
11	A. Explain the Features in python. (5) B. Illustrate interpreter and interactive mode in python with example. (5)	CO1	2 2
	OR		
12	A. Explain briefly the keywords and Conditional statements available in python. (7) B. Explain the concept of input-output in Python with example. (3)	CO1	2 2
13	A. Explain the concept of operators in python. (6)	CO2	2

	B. Explain the Expressions and order of evaluations. (4)		2
	OR		
14	A. Explain the Looping concepts in Python. (6) B. Write Python Program to illustrate the Sum of natural numbers up to n. (4)	CO2	2 2
15	What is meant by a function and its arguments explain with an example? Explain why the functions are necessary. (2+6+2)	CO3	3
	OR		
16	A. Explain the concept of Lists, Tuples, dictionaries, set. (5) B. How the other list methods index( ), insert( ), remove( ), pop( ), reverse( ) are implemented. (5)	CO3	2 4
17	A. Explain in detail on File Handling. (6) B. Explain the concept "append" and "write" with example. (4)	CO4	2 2
	OR		
18	A. Explain briefly any one of the Python Modules. (7) B. Draw a line in a diagram from position(0,0) to position(6,250) (3)	CO4	2 3
19	What is Inheritance and Explain its types in detail. (10)	CO5	2
	OR		
20	A. Explain how the exceptions are handled in Python. (6) B. Write an Example program to Handle multiple exceptions. (4)	CO5	2 3