



R20 Regulation

Subject code:306AE

**TKR COLLEGE OF ENGINEERING AND TECHNOLOGY**

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

**B.Tech VI Semester Supplementary Examinations, May 2025**

**PYTHON PROGRAMMING**

(CE)

Maximum Marks: 70

Date: 27.06.2025

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	Define an algorithm.	2M	1	L1
2	List keywords in Python.	2M	1	L1
3	List some of the keywords in python?	2M	2	L1
4	PEMDAS stand for in Python expressions?	2M	2	L1
5	What's the purpose of the "pass" statement in Python?	2M	3	L1
6	Define lambda function.	2M	3	L1
7	What's the purpose of creating a module in Python?	2M	4	L1
8	How do you import an entire module in Python?	2M	4	L1
9	What are methods in Python classes?	2M	5	L1
10	What is the name of the method that initializes an object in a class?	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Explain the significance of proper indentation in Python with a code snippet. Explain its role in code readability.	10M	1	L2
OR				
12	a) Write the history of Python. b) How do you run a python script in various modes. Explain with a python program.	5M 5M	1	L2
13	Discuss the difference between the '=' operator and the 'is' operator in Python with suitable examples.	10M	2	L2
OR				
14	Explain about the different types of operators with an example programs for each.	10M	2	L2
15	Explain the concept of fruitful functions in Python and the importance of returning values from functions.	10M	3	L2
OR				
16	Explain the concept of local and global scope in Python functions. Discuss how variables declared inside a function have local scope, while	10M	3	L2

	variables declared outside have global scope. Provide examples to illustrate the difference.			
17	Explain in detail about Python Files, its types, functions and operations that can be performed on files with examples.	10M	4	L2
	OR			
18	Explain the purpose and features of the Django framework in Python for Web development.	10M	4	L2
19	List and explain the different phases involved in object-oriented programming language.	10M	5	L2
	OR			
20	Explain the concept of Exception Handling in Python with suitable program.	10M	5	L2