



R18 Regulation

Subject code:206FC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, May 2025

PYTHON PROGRAMMING

(IT)

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	State any four applications where python is more popular	2M	1	L1
2	What are membership operators? Give an example.	2M	1	L1
3	How pass statement is different from a comment?	2M	2	L1
4	What is range() function?	2M	2	L1
5	How to access values in a dictionary?	2M	3	L1
6	What are the features of tuple data structure?	2M	3	L1
7	Can a python function return multiple values? If yes, how it works?	2M	4	L1
8	What are default arguments?	2M	4	L1
9	What is class instantiation?	2M	5	L1
10	What is polymorphism?	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	List and explain different arithmetic operators supported by python. Discuss about their precedence and associativity	10M	1	L2
OR				
12	List different operators in python, in the order of their precedence.	10M	1	L2
13	What are the different loop control statements available in python? Explain with suitable examples.	10M	2	L2
OR				
14	a) What is the use of pass statement? Illustrate with an example program. b) Explain about decision statement with suitable examples.	5M 5M	2	L2
15	Give a comparison between lists, tuples and dictionaries.	10M	3	L2
OR				
16	a) Explain numpy in detail. b) Explain in built methods used in tuples with suitable example.	5M 5M	3	L2
17	a) Explain with an example, how + and * operators work with strings. b) Distinguish between actual and formal parameters.	6M 4M	4	L2

	OR			
18	a) Explain a recursive function with an example program. b) What is an index operator? How does it help in accessing a character? Give an example.	4M 6M	4	L2
19	a) How to declare a constructor method in python? Explain. b) Explain the features of OOPS.	5M 5M	5	L2
	OR			
20	a) Explain how to implement inheritance in python. b) Explain types of methods in detail.	5M 5M	5	L2