



R22 Regulation

Subject code: 4E3EB

# TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

## B.Tech III Semester Regular/Supplementary Examinations, December 2024

### Python Programming

(Common to CSE, CSE(AI&ML) & CSE(DS))

Maximum Marks: 60

Date:06.12.2024

Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
  2. Part A is compulsory which carries 10 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 (10X1M=10 Marks)			
1.a)	List the Features of python Programming language.	1	L1
b)	Differentiate Mutable and immutable datatypes in python.	1	L2
c)	Write about membership operators with an example.	2	L2
d)	How to use Pass Statement in Python.	2	L2
e)	List the properties of dictionary in python.	3	L1
f)	Define Text file.	3	L1
g)	Write how to import a package in Python.	4	L1
h)	List the different modes of opening a File.	4	L1
i)	What is the purpose of the "try-except" block in Python?	5	L2
j)	What is an exception?	5	L1
Part-B		CO	Bloom Tx
Answer All the following questions. (5X10M=50Marks)			
2	Discuss the basic syntax rules and structure of Python. Explain the significance of indentation and how it contributes to the readability of Python code. [10M]	1	L3
OR			
3	Make use of variables and data types for python programming [10M]	1	L3
4	(a) Apply break and continue statements in Python Programming. [5M] (b) Develop a python code to accept 3 digit number from the user and check whether it is an Armstrong or not. [5M]	2	L3 L3
OR			
5	Construct a python programming by using different types of operators with syntax and description [10M]	2	L3
6	Analyze the list data structure of python programming based on its features and methods. [10M]	3	L4

	OR		
7	List and explain different types of arguments in functions. [10M]	3	L4
8	Apply the following built-in functions with syntax and description. a) open() b) seek() c) tell() d)read() [2.5*4=10M]	4	L3
	OR		
9	(a) Apply different functions available in Numpy. [5M] (b) Make use of different data structures available in Pandas. [5M]	4	L3 L3
10	(a) Differentiate between Error and Exception. [5M] (b) Classify different types of exceptions with an example in python [5M]	5	L4 L4
	OR		
11	List out the different types of inheritance. Explain each with an example. [10M]	5	L4