



R18 Regulation Subject code: 2P4EC  
**TKR COLLEGE OF ENGINEERING AND TECHNOLOGY**  
(Autonomous, Accredited by NAAC with 'A' Grade)  
**B.Tech IV Semester Supplementary Examinations, September 2023**

**Python Programming**  
(CSE)

**Maximum Marks: 70**

Date: 24.09.2023 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)

- 1 List python standard/built-in data types.
- 2 Describe type() method with example.
- 3 What is 'pass' statement?
- 4 What is floor division or truncating division? Give example.
- 5 Differentiate between dictionary and list?
- 6 Distinguish between parameter and argument
- 7 Define package. How to import a package in python program.
- 8 Write any two Differences between numpy and scipy?
- 9 How to create a class in python?
- 10 Write about data hiding in python with example program

**Part-B**

Answer All the following questions.

(5X10M=50Marks)

- 11 Discuss about the dictionary and set data types in Python with an example. (10M)  
OR
- 12 a) Explain how Python is different from C/C++/Java (5M)  
b) Write about input/output statements in python with suitable examples. (5M)
- 13 a) Discuss about Python operators precedence with an example. (10M)  
b) Write a Python program that prints all the numbers from 0 to 50 except multiples of 10. (5M)  
OR
- 14 a) Write about membership & identity operators in python with suitable examples. (5M)  
b) Write a Python program which iterates the integers from 1 to 50. For multiples of three print "Fizz" instead of the number and for the multiples of five print "Buzz". For numbers which are multiples of both three and five print "FizzBuzz". (5M)
- 15 a) List the string testing methods with examples. (5M)  
b) Discuss about scope of the variables in python functions. (5M)  
OR
- 16 Write a Python program to sort a list of elements using the bubble sort technique. (10M)

- 17 Write a Program to print the number of lines, words and characters present in the given file. (10M)
- OR
- 18 a) Write a python program to find the determinant for a 2\*2 matrix using scipy library module. (5M)  
b) Discuss the different modes for opening a file and closing a file. (5M)
- 19 a) List the various properties of a file briefly describing each of them. (5M)  
b) Explain about Exception handling in python with an example. (5M)
- OR
- 20 a) List and explain the different phases involved in object-oriented programming language. (5M)  
b) Write a Python program to demonstrate Multiple Inheritance. (5M)