



R20 Regulation

**TKR COLLEGE OF ENGINEERING AND TECHNOLOGY**

Subject code: 305DA

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

**B.Tech V Semester Supplementary Examinations, June/July 2023**

**PYTHON PROGRAMMING**

(Electronics and Communication Engineering)

**Maximum Marks: 70**

Date: 26.06.2023 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 which carries 10M.
  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 Data types.
- 2 How to take multiple inputs from user in python?
- 3 What are membership operators?
- 4 Write the syntax of for- loop?
- 5 Can a Python function return multiple values? If yes, how it works?
- 6 Compare and contrast global and local variables.
- 7 Give the syntax for deleting a file.
- 8 Define a module.
- 9 How to make a Python class member variable hidden from outside the class?
- 10 Compare and contrast Exception and Error.

**Part-B**

Answer All the following questions.

(5X10M=50Marks)

- 11 Briefly discuss about running Python scripts. (10)  
OR
- 12 Explain variables and identifiers in detail with code examples. (10)  
OR
- 13 Write a Python program to find GCD of two numbers. (10)  
OR
- 14 Explain about Identity operators in Python with examples. (10)  
OR
- 15 What type of parameter passing is used in Python? Justify your answer with sample programs. (10)  
OR
- 16 A. Write in brief about anonymous functions. (5)  
B. Explain the List Slicing and List Mutability. (5)  
OR
- 17 Discuss about Python modules and packages in details. (10)  
OR
- 18 A. Write a Python program to read and display data from a file. (5)  
B. Explain in detail about Matplotlib. (5)  
OR
- 19 A. How to declare a constructor method in Python? Explain. (5)  
B. How to create, raise and handle user defined exceptions in Python. (5)  
OR
- 20 What happens if except clause is written without any Exception type? Explain with an example. (10)