



R18 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

Subject code:206FC

**B.Tech VI Semester Regular Examinations, June 2022**

**PYTHON PROGRAMMING**  
(INFORMATION TECHNOLOGY)

**Maximum Marks: 70**

Date:23.06.2022 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 out any twelve keywords in python.
- 2 Write various I/O statements followed in python.
- 3 List out membership operators.
- 4 Write a program in Python to display the Factorial of a number.
- 5 What is slicing?
- 6 Mention any five list methods.
- 7 Define a function.
- 8 What is the difference between input() and raw\_input()?
- 9 Define Data frame In Pandas?
- 10 What is Pandas Numpy Array?

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11
  - A. Describe about various operators used in python with examples.
  - B. Elaborate the available string manipulation facilities in python. [5+5]OR
- 12
  - A. List and explain few most commonly used built-in data types in python.
  - B. Is Python a "Scripting language"? Describe the need of python programming. [5+5]
- 13
  - A. Explain Jumping statements in Python.
  - B. Write a Python program to find the square root of a number. [5+5]OR
- 14 What are control flow statements in Python discuss with suitable examples. [10]
- 15
  - A. Explain in detail about mutability and tuple with a Python program.
  - B. Explain in detail about list comprehension. Give an example. [5+5]OR
- 16
  - A. Write a Differences and Applications of Tuples and Dictionary in Python.
  - B. Write about List Manipulation functions. [5+5]

- 17 A. Write a Python function that accepts a string and calculate the number of upper-case letters and lower-case letters.  
B. Describe Types of Python Functions. [5+5]
- OR
- 18 A. Write a Python function that prints out the first n rows of Pascal's triangle  
B. Describe in detail about string methods. [5+5]
- 19 A. What are the methods for Boolean arrays in Numpy.  
B. Explain data types for **nd arrays** in Numpy. [5+5]
- OR
- 20 A. How to handle missing data in pandas  
B. What are the Mathematical and statistical methods? [5+5]