



R17 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

Subject code: 1P7FC

B.Tech IV Year I Semester Regular Examinations, February 2021

Python Programming (Information Technology)

Maximum Marks: 70

Date: 25.02.2021 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 Demonstrate the various operators in python.
- 2 Write a Python program to find the given year is leap year or not.
- 3 Discuss the different ways of creating modules and packages with examples
- 4 Explain Exception Handling in python.
- 5 What is Global Interpreter Lock.
- 6 List down the threads and Processes.
- 7 Compare Web client and Web server in Python web programming.
- 8 What are CGI Helping Servers to process Client Data ?
- 9 What are ORMs in python ?
- 10 What are the python modules useful for connecting python with various Databases?

Part-B

Answer All the following questions. (10M X 5=50Marks)

- 11 a) Develop a python Program to count the number of vowels in a string provided by the user. (5M)
b) Write the python program to generate the Fibonacci series.(5M)
OR
- 12 a) Explain in detail about file built-in methods and file built-in attributes? (5M)
b) Write a program to perform different arithmetic operations. (5M)
- 13 Write a program that reads the contents of the file text.txt and counts the number of alphabets, blank spaces, lowercase letters and uppercase letters, the number of words starting with a vowel, and the number of occurrences of the word 'is' in the file. (10M)
OR
- 14 Discuss the following methods associated with the file object with an example. (10M)
i) read () ii) read line() iii) read lines() iv) tell() v) seek() vi) write()
- 15 What is Module in Python? Explain, how can you use Modules in your program with an example? Explain python built-in exceptions? (10M)
OR
- 16 What is the purpose of Regular expressions in python? Write a python program to utilize all Special symbols and Characters of regular expressions. (10M)

- 17 Write a TKinter program to create GUI for a shopping cart. (10M)
OR
- 18 Create a CGI based Web Application in python for Library Management. (10M)
- 19 Explain DB-API based python database programming with example. (10M)
OR
- 20 Develop a Python program to manage your class database. (Name, DOB, Reg.No, Addr, Phone No, Mark) (10M)