



R20 Regulation *Subject code:3P4HD*
TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
 (Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech IV Semester Supplementary Examinations, December 2024

PYTHON PROGRAMMING
(CSE(DS))

Maximum Marks: 70

Date:17.12.2024

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)		CO	Bloom Tx
1	Differentiate between compiled and interpreted languages?	1	L1
2	List some of the keywords in python	1	L1
3	Why * is called string repetition operator?	2	L1
4	List the properties of dictionary in python.	2	L1
5	Write about data hiding in python with example program	3	L1
6	Write a python class which has two methods get_String and print_String. get_String accepts a string from the user and print_String print the string in uppercase.	3	L1
7	List the file opening Modes.	4	L1
8	Mention the usage of modules in Python Programming.	4	L1
9	Discuss about Entry widget?	5	L1
10	What are the different functions to retrieve rows from a table?	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
11	A) Explain about the need for learning python programming and its importance. [5M] B) Explain in detail about python type conversion and type casting with example. [5M]	1	L2
OR			
12	List and explain different arithmetic operators supported by Python. Discuss about their precedence and associativity with an example. [10M]	1	L2
13	A) Write a python program illustrating how a function returns another function. [5M] B) Discuss about scope of the variables in python functions. [5M]	2	L2
OR			

14	A) Write about membership & identity operators in python with suitable examples. [5M] B) Explain different functions of string with suitable examples. [5M]	2	L2
15	List and explain different Object-Oriented features supported by Python. [10M]	3	L2
OR			
16	Explain the concept of Exception Handling in Python with suitable program. [10M]	3	L2
17	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]	4	L2
OR			
18	A) Write a python program to append data to an existing file and then displaying the entire file. [5M] B) Explain importance of 'matplotlib' and its usage. [5M]	4	L2
19	Discuss about following Widgets in Tkinter [10M] A) Button B) Check button C) Radio button D) Scale E) Top Level	5	L2
OR			
20	Discuss about database programming in python? And explain the procedure of Database Programming using any DB-API with example. [10M]	5	L2