



R20 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

Subject code:3P5GB

B.Tech V Semester Supplementary Examinations, December 2024

Python Programming (CSE (AIML))

Maximum Marks: 70

Date:28.12.2024

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	Is python a "scripting language"? Justify your answer.	1	L1
2	Distinguish between input()and raw_input().	1	L1
3	Write membership operators in python with suitable example.	2	L1
4	Write the syntax of while loop?	2	L1
5	What is fruitful function?	3	L1
6	What is list comprehension?	3	L1
7	How to create a file in python?	4	L1
8	Define package?	4	L1
9	How to create a class and object in python?	5	L1
10	Distinguish between error and exception?	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
11	A) Differentiate between C++ and Python [5M] B) List out the keywords in python. [5M]	1	L2
OR			
12	A) What are identifiers? Discuss the rules to name an identifier [5M] B) Explain sequence type in python with suitable examples. [5M]	1	L2
13	A) Write logical and bitwise operators with an example [4M] B) Explain i) Break ii) Continue iii) Pass [6M]	2	L2
OR			
14	Explain looping control statements with suitable examples. [10M]	2	L2
15	A) What is a lambda function? What are the characteristics of a lambda function? Give an example. [6M] B) Explain keyword and variable length arguments. [4M]	3	L2
OR			
16	A) Differentiate between Lists and Tuples in python? [5M] B) List out the built in set methods in python. [5M]	3	L2

17	A) Write the syntax to create, open and close a file? [6M] B) List out the different types of file access modes in python? [4M]	4	L2
	OR		
18	A) How to import module in python with suitable example. [5M] B) Demonstrate pandas and numpy module with an example. [5M]	4	L2
19	A) Write a python program to call data member and methods using classes and objects. [4M] B) Explain data hiding with suitable example [6M]	5	L2
	OR		
20	A) Explain exception handling in detail with suitable program [7M] B) Explain the following: [3M] i) Zero Division Error ii) Overflow Error iii) Index Error.	5	L2