



Regulation R18

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

Subject code:206FC

B.Tech VI Semester Supplementary Examinations, February 2023

Python Programming (INFORMATION TECHNOLOGY)

Maximum Marks: 70

Date:27.02.2024 Duration: 3 hours

- Note:**
- 1.Question paper contains two parts A and B.
 2. Answer all questions in Part A, Each question carries 2 mark.
 3. Answer 5 questions in Part B out of 10 questions. Each question carries 10 marks.

Part-A

Answer all the following questions		(10X2M=20 Marks)	CO	Bloom Tx
1	What are the benefits of using python?		1	L1
2	Differentiate between logical and bitwise operators?		1	L2
3	Explain range () function.		2	L1
4	Explain pass statement.		2	L1
5	List in-built functions supported by tuples.		3	L1
6	Explain zip() function.		3	L1
7	What does *args mean?		4	L1
8	Give an example for local and global scope of the variable in a function?		4	L1
9	Define Numpy.		5	L1
10	Define Data Frame in Pandas.		5	L1

Part-B

Answer all the questions.		(5X10M=50Marks)		
11	a. Explain internal working of python. [5M] b. What are identifiers? Discuss the rules to name an identifier? [5M]		1	L2
OR				
12	What are the common built-in data types in python? [10M]		1	L2
13	a. What are the different loop control statements available in python? Explain with suitable examples? [6M] b. Write a python program to read three numbers from a user and check if the first number is greater than the other two numbers? [4 M]		2	L2 L3
OR				
14	a. Write a python program to find the given year is leap year or not? [4M] b. What is the use of pass statement? Illustrate with an example. [6M]		2	L3 L2

15	a. Explain the List Accessing Methods and List Comprehension. [6M] b. Write a python program considering a list with five different Celsius values. Convert all the Celsius values into Fahrenheit. [4M]	3	L2 L3
OR			
16	a. Discuss about tuples in python. [6M] b. Write a python program to perform addition of two matrices using numpy? [4M]	3	L2 L3
17	a. What is lambda function? Why it is used? Give an example. [6M] b. Explain split() and join() functions in string. [4M]	4	L2
OR			
18	a. Explain a recursive function with an example program. [4M] b. What is an index operator? How does it help in accessing a character? Give an example. [6M]	4	L2
19	a. Explain how slicing in numpy array works in python. [5M] b. Explain data types supported by numpy. [5M]	5	L2
OR			
20	a. Explain how to handle missing data in pandas. [5M] b. Explain in detail about panda's index with suitable example. [5M]	5	L2