



R18 Regulation

Subject code: 206FC

# TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, July 2024

## PYTHON PROGRAMMING

(IT)

Maximum Marks: 70

Date:01.08.2024 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)	
1	What is Python? What are the benefits of using python?	CO1	L1
2	Differentiate between logical and bitwise operators.	CO1	L1
3	Explain range () function?	CO2	L1
4	Explain pass statement?	CO2	L1
5	List in built functions supported by tuples.	CO3	L1
6	Explain zip() function?	CO3	L1
7	What does *args mean?	CO4	L1
8	Give an example for local and global scope of the variable in a function?	CO4	L1
9	Define Numpy?	CO5	L1
10	Define Data Frame in Pandas?	CO5	L1

### Part-B

Answer All the following questions.		(5X10M=50Marks)	
11	A. Explain internal working of python? [5M]	CO1	L2
	B. What are identifiers? Discuss the rules to name an identifier. [5M]	CO1	L2
	OR		
12	What are the common built-in data types in python? [10M]	CO1	L2
13	A. What are the different loop control statements available in python? Explain with suitable examples. [6M]	CO2	L2
	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. [4M]	CO2	L3
	OR		
14	A. Write a python program to find the given year is leap year or not. [4M]	CO2	L3
	B. What is the use of pass statement? Illustrate with an example. [6M]	CO2	L2
15	A. Explain the List Accessing Methods and List Comprehension. [5M]	CO3	L2
	B. Write a python program considering a list with five different Celsius values. Convert all the Celsius values into Fahrenheit. [5M]	CO3	L3
	OR		
16	A. Discuss about tuples in python. [5M]	CO3	L2
	B. Write a python program to perform addition of two matrices using numpy. [5M]	CO3	L3

17	A. What is lambda function? Why it is used? Give an example. [6M]	CO4	L2
	B. Explain split () and join () functions in python? [4M]	CO4	L2
	OR		
18	A. Explain a recursive function with an example program. [4M]	CO4	L2
	B. What is an index operator? How does it help in accessing a character? Give an example. [6M]	CO4	L3
19	A. Explain how slicing works in python. [5M]	CO5	L2
	B. Explain data types supported by numpy. [5M]	CO5	L2
	OR		
20	A. Explain how to handle missing data in pandas. [5M]	CO5	L2
	B. Explain in detail about pandas index with suitable example. [5M]	CO5	L2