



R22 Regulation
TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous, Accredited by NAAC with 'A+' Grade)

Subject code: 4E2AT

B.Tech II Semester Supplementary Examinations, January 2024
PROBLEM SOLVING USING PYTHON
(IT)

Maximum Marks: 60

Date: 19.01.2024 Duration: 3 hours

- Note:**
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 10 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

(10x1M=10 Marks)

	CO	Bloom
1 List the various building blocks of Algorithms.		Tx
2 What is the difference between iteration and recursion algorithm?	CO1	L1
3 Define if-else statement.	CO1	L1
4 What is Function?	CO2	L1
5 What is extend() ?	CO2	L1
6 Write the syntax of while loop.	CO3	L1
7 Define Concatenation().	CO3	L1
8 Define Array.	CO4	L1
9 Define slicing of data from file.	CO4	L1
10 How to import a module in Python	CO5	L1
	CO5	L1

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 Write algorithm, pseudo code and flow chart for finding the biggest of n given numbers. (10)
CO1 L3
- OR
- 12 Explain the logic of finding factorial of given number using the Iteration and Recursion methods. (10)
CO1 L3
- 13 List some features of Python. Briefly explain the input and output functions used in python. (10)
CO2 L2
- OR
- 14 Define operator. Discuss about the arithmetic, assignment, comparison and bitwise operators with examples. (10)
CO2 L2
- 15 Explain the Python String Operators with Example. (10)
CO3 L2

OR

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|----|---|------|-----|----|
| 16 | Write short notes on (2X5=10)
(i) Function Call
(ii) Formal and Actual arguments
(iii) Positional arguments
(iv) Recursive functions
(v) Powerful Lamda function | | CO3 | L2 |
| 17 | Define Tuple and explain its methods with an example? | (10) | CO4 | L3 |
| OR | | | | |
| 18 | A. Explain the concept of Lists, Tuples, dictionaries, set. (5)
B. How the other list methods index(), insert(), remove(), pop(), reverse() are implemented. (5) | | CO4 | L3 |
| 19 | A. Explain in detail on File Handling. (6)
B. Explain the concept "append" and "write" with example. (4) | | CO5 | L2 |
| OR | | | | |
| 20 | A. Explain briefly any one of the Python Modules. (7)
B. Draw a line in a diagram from position(0,0) to position(6,250) (3) | | CO5 | L3 |