

Reg. No.:

Name:



VIT[®]
B H O P A L
www.vitbhopal.ac.in

TERM END EXAMINATIONS (TEE) – May 2023

Programme	: B. Tech	Semester	: Summer Semester 2022-23
Course Title / Course Code	: Introduction to Problem Solving and Programming / CSE1021	Slot	: C11+C12+C13+C14+C15+C17
Time	: 1½ hours	Max. Marks	: 50

Answer ALL the Questions

Q. No.	Question Description	Marks
PART - A (30 Marks)		
1	(a) Define a pseudocode in context to Python programming. Write a pseudocode as well as draw a flowchart to print the largest of three numbers. OR (b) Using Python programming, solve the given expression: $((5+7) * 3) - 1 // 2 - 3 * 6$.	10
2	(a) Write a Python program to find the following using numpy.sqrt(): a) Square root of 144. b) Square root of list of numbers: [25 36 49]. OR (b) Write a Python program to check whether a given year is a leap year or not.	10
3	(a) Write a Python program to pick three random items from the given list: List = [20 30 40 50 60 70 80 90] OR (b) Create a Python class named 'Rectangle' with length and breadth and the formula to find the area of the rectangle. Assume proper dimensions and give the output of the program.	10

PART - B (20 Marks)

- | | | |
|---|---|----|
| 4 | What do you mean by 'Python is an interpreted language'? Explain 'inheritance' in Python with a proper example. | 10 |
| 5 | Can we use 'list' as a substitute for 'arrays' in Python programming? Write syntax for both cases. | 10 |

