



B.Tech V Semester Supplementary Examinations, July 2024
Python Programming
(ECE)

Maximum Marks: 70

Date:22.07.2024 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.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A		CO	Bloom Tx
All the following questions carry equal marks (10x2M=20 Marks)			
1	List out any four keywords in python.	CO1	2
2	Identify the operators and operands in the following statement $Sum = a + b$.	CO1	2
3	Name the two types of iterative statements supported by python.	CO2	3
4	Define pass, continue statements	CO2	3
5	Write the python program to access 'python' and 'program' from the given nested list list = [[10.2, 'data', ['python', 40, ['program']]]].	CO3	3
6	Define array.	CO3	3
7	Write a python program to handle the divide by zero exception.	CO4	3
8	What is the use of the (%) format operator?	CO4	3
9	Develop a NumPy program to create a 4x3 matrix filled with values from 1 to 10.	CO5	3
10	Develop a python program to find the inverse of a matrix.	CO5	3
Part-B			
Answer All the following questions. (5X10M=50Marks)			Bloom Tx level
11	a) What are operators in Python? Describe specifically about identity membership operator. (5M) b) What are identifiers? Discuss the rules to name an identifier. (5M)	CO1	3
OR			
12	Explain in detail about 4 built-in numeric data types in Python. (10M)	CO1	2
13	Write a Python program to find the maximum of three numbers. (10M)	CO2	3
(OR)			
14	Write a python program to find whether a number is prime number or composite number. (10M)	CO2	3

15	Write a program to count and print the number of occurrences of each character in the message. (10M)	CO3	3
	(OR)		
16	What is meant by tuple and how it is created? What are the built-in functions used in tuple? Explain with suitable example. (10M)	CO3	3
17	Explain about strings and write its methods. (10M)	CO4	3
	(OR)		
18	Define function and write a python program for finding number of characters and words in a statement using function. (10M)	CO4	3
19	How to Create a one and multi-dimensional NumPy array explain in detail. (10M)	CO5	3
	(OR)		
20	Explain about data types, indexing and slicing in NUMPY. (10M)	CO5	3