

(Common to EEE&FE)

Tir	ne: (3 hours Max. Marks: 70	_
		Answer any FIVE Questions each Question from each unit All Questions carry Equal Marks	
		 UNIT-I	
1	a)	List and explain the phases in the Program development cycle.	[7M]
	b)	Develop a Python program to perform the addition of two given matrices.	[7M]
		Or	
2	a)	List and explain various Data types in Python programming.	[7M]
	b)	Compare the features of C with Python language.	[7M]
		UNIT-II	
3	a)	Develop Python program to perform sorting of given input strings.	[7M]
	b)	Develop a Python program to convert a given octal number to Decimal and Hexa decimal.	[7M]
4	a)	Or Develop a Python program to perform string concatenation and copy operations.	[7M]
-	b)	List and explain various operations on text files.	[7M]
	0)	UNIT-III	[, 1, 1
5	a)	List and explain any four packages of Python language.	[7M]
	b)	Define recursion and develop a program that performs merge sort using recursion.	[7M]
		Or	
6	a)	List and explain the methods of list structure with examples.	[7M]
	b)	List and explain any three standard modules in Python.	[7M]
		UNIT-IV	
7	a)	Demonstrate the log file writing in Python program.	[7M]
	b)	Demonstrate the design with classes using a case study.	[7M]
		Or	
8	a)	Define Inheritance and explain types of Inheritance with examples.	[7M]
	b)	Demonstrate operator overloading with an example program.	[7M]
		UNIT-V	
9	a)	List and explain any four built-in error types in Python	[7M]
	b)	Define exceptions and how to handle exceptions in a Python program?	[7M]
10	a)	Or Demonstrate GUI-based program coding with an example.	[7M]
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	b)	List and explain any three clean-up actions with examples.	[7M]
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		Answer any FIVE Questions each Question from each unit All Questions carry Equal Marks	
1	a)	Demonstrate Nested decision structure with example program.	[7M]
	b)	List and explain various Data types in Python programming.	[7M]
		Or	
2	a)	Develop a function that computes the GCD of given two numbers.	[7M]
	b)	Demonstrate expression evaluation in Python programming.	[7M]
		UNIT-II	
3	a)	Develop a program to convert a decimal number into base 4 and base 6 numbers using Python program.	[7M]
	b)	List and explain various string methods in Python.	[7M]
		Or	
4	a)	Develop a program to concatenate and compare two given strings in Python.	[7M]
	b)	Demonstrate the read-write operations of the text file in Python language.	[7M]
		UNIT-III	
5	a)	List and explain various methods of Dictionary structure.	[7M]
	b)	Discuss various methods to draw the Plots in Python.	[7M]
		Or	
6	a)	List and explain various methods of List structure.	[7M]
	b)	Define recursion. Develop a program that applies recursion to compute the factorial of a number. Discuss the advantages of recursion. UNIT-IV	[7M]
7	a)	List and explain types of Inheritance with examples.	[7M]
	b)	Develop a program that applies Seek function on files.	[7M]
		Or	
8	a)	Add and retrieve dynamic attributes of classes.	[7M]
	b)	Demonstrate read, readline, and readlines with examples.	[7M]
		UNIT-V	
9	a)	List and explain the GUI based resources for Python programming.	[7M]
	b)	Develop a Python program to handle division by zero exception.	[7M]
		Or	
10	a)	Is it possible to implement multiple exception blocks in Python exception handling? Justify your answer.	[7M]
	b)	Discuss the importance of GUI based programs with an example.	[7M]



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1 11		Answer any FIVE Questions each Question from each unit	
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		UNIT-I	
L	a)	Develop a Python program to perform matrix multiplication.	[7N
	b)	Compare Python with any one object oriented programming language.	[7N
2	a)	Or Develop a Python program to sort the given input strings.	[7N
	b)	List and explain various operators in Python language.	[7N
	,	UNIT-II	L
6	a)	Develop a Python program to find the substring within a given string.	[7N
	b)	List and explain various string methods in Python with examples.	[7]
		Or	
•	a)	Demonstrate Data Encryption in Python with an example.	[7]
	b)	Develop a Python program to convert a given decimal into binary, octal, and hexa decimal. UNIT-III	[7]
	a)	Discuss the advantages of recursion and propose alternate solutions for recursion	[7]
	b)	using a case study. Discuss the importance and implementation of Abstraction mechanism in Python.	[7]
		Or	
	a)	List and explain any three packages in Python.	[7]
	b)	Discuss the problem solving with Top-Down Design.	[7]
		UNIT-IV	
	a)	List and explain any three object-oriented concepts.	[7]
	b)	Demonstrate inheritance using a Python program.	[7]
		Or	
	a)	Demonstrate Polymorphism using an example Python program.	[7]
	b)	Demonstrate Data modeling with an example.	[7]
	`	UNIT-V	[7]
	a)	Demonstrate GUI based programming with an example.	[7]
	b)	List and explain the exception handling mechanism in Python?	[7]
0		Or Define Execution and discuss how to handle executions with an example in Dythen	[<i>1</i> 7]
0	a)	Define Exception and discuss how to handle exceptions with an example in Python	[7]
	b)	Compare terminal based with GUI-based programs.	[7]
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Time:	3 hours Max. Marks: 70	
	Answer any FIVE Questions each Question from each unit	
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	UNIT-I	
a)	Demonstrate nested if-else with an example Python program.	
b)	List and explain various looping statements in Python.	
a)	Or Develop a function that finds the roots of a quadratic equation	
a) b)	Develop a function that finds the roots of a quadratic equation. List and explain the numeric data types in Python.	
0)	UNIT-II	
a)	Explain various conditional controlled and loop controlled statements available in python?	
b)	Develop a python program to convert base 4 numbers to base 8 and 16 numbers.	
	Or	
a)	Discuss the need for Data encryption and Implement Data encryption in Python.	
b)	Develop a python program to perform string concatenation and comparison UNIT-III	
a)	Compare Lists with Dictionaries with suitable examples.	
b)	Demonstrate recursion with an example python program.	
0)	Or	
a)	List and explain methods of Dictionary methods to access and manipulate its structure.	
b)	Demonstrate the advantages of the abstraction mechanism in python with an example.	
	UNIT-IV	
a)	Demonstrate file operations with a suitable Python program.	
b)	Explain the functions write and write lines with examples.	
	Or	
a)	Demonstrate the use of Destructor with a Python program.	
b)	Develop a program to read Config files in Python.	
	UNIT-V	
a)	Compare the GUI-based programs with Terminal-based programs.	
b)	Demonstrate user-defined exception handling mechanism with an example.	
	Or	
a)	Discuss the resources for developing GUI based programs in Python.	
b) '' ''	List and explain any three clean–up actions supported by python?	
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