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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

MCA II Year I Semester Supplementary Examinations July-2025

ADVANCED PROGRAMMING (PYTHON & R LANGUAGES)

		ADVANCED PROGRAMMING (PYTHON & R LANGUAGES)						
Time: 3 hours		Maz	k. Mai	:ks: 60				
		(Answer all Five Units $5 \times 12 = 60$ Marks)						
		UNIT-I						
1	a	Explain the concept of Variables and Keywords in Python with examples.	CO 1	L2	6M			
	b	List out the various applications of Python.	CO1	L1	6M			
		OR						
2	a	Describe Input – Output in python with an example program.	CO 1	L4	6M			
	b	Design a python program to demonstrate logical operators.	CO1	L6	6M			
3	a	How can we create and access the tuple in python. Provide an appropriate	CO2	L2	6M			
5	а	example.			UNI			
	b	Identify various methods performed on tuple in python.	CO2	L3	6M			
	~	• OR	001	10	01/1			
4	a				6M			
		example.	CO2	L2				
	b	Identify various methods performed on sets in python.	CO2	L3	6M			
		UNIT-III						
5	a	Explain Encapsulation in python with an example.	CO3	L2	6M			
5	b	What is Init method in python? Provide an example for Init method.	CO3	L1	6M			
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6	a	Discuss the concept of Try, Catch block in Exception with an example	CO3	L2	6M			
		program.						
	b	Develop a simple program for Exception Handling in python.	CO3	L6	6M			
	UNIT-IV							
7	a	What are the various command packages in R?		L1	6M			
	b			L2	6M			
		OR						
8	a	What is a vector in R? Explain different ways to create a vector.	CO4	L2	6M			
	b	Identify different ways to select and display parts of a vector object.	CO4	L3	6M			
		UNIT-V						
9	a	List out summary of commands to add names to Rows Columns of Data	CO5	L1	6M			
		objects.						
	b	Identify and explain various T – Test commands in R.	CO5	L3	6M			
	OR							
10	a	Differentiate Plots and Charts in the graphical analysis.		L4	6M			
	b	Draw a pie Chart for the following data.			6M			
		Section I II III IV V						
		No. of workers 220 370 190 70 250						
		*** FND ***						

*** END ***