Reg.No.				
Reg.No.				

G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI - 628 502.



PG DEGREE END SEMESTER EXAMINATIONS - NOVEMBER 2024.

(For those admitted in June 2022 and later)

		PF	ROGRAMME AND	BRANCH: M.Sc.,	COMPUTER S	SCIENCE	
SEM	CAT	EGORY	COMPONENT	COMPONENT COURSE CODE		COURSE TITLE	
II	PART - III		CORE	P22CS209		NALYTICS WITH PYTHON PROGRAMMING	
Date:	14.11	1.2024	/ FN	Time: 3 ho	Maximum: 75 Marks		
Course Outcome	Bloom's K-level	Q. No.	<u>SECTION - A (10 X 1 = 10 Marks)</u> Answer <u>ALL Questions.</u>				
CO1	K1	1.	How many times will the print statement be executed ?for i in range(100): print(i)				
			a) 101	b) 0	c) 99	d)100	
CO1	K2	2.	What is a named a) function	sequence of statem b) branch	-	forms a computation? d) loop	
200			<u>, </u>	<u> </u>		, -	
CO2	K1	3.	Which data structure allows to return multiple values from a function?				
			a) List	b) Dictionary	c) Tuple	d) All the above	
CO2	K2	4.		ws you to add an el		· ·	

CO2	K2	12a.	Discuss Inheritance and its types.
			(OR)
CO2	K2	12b.	Outline the Numpy aggregate functions with an example.
CO3	КЗ	13a.	Apply data indexing and selection on Pandas for selecting a column in excel
			file.
			(OR)
CO3	КЗ	13b.	Illustrate the role of objects on Pandas in filtering columns.
CO4	КЗ	14a.	Show the application of Pivot table with a case study.
			(OR)
CO4	КЗ	14b.	Justify experimental techniques that allow Pandas to operate at fast speeds
			with arrays.
CO5	K4	15a.	Analyze various ways to Plot legends in MATPLOTLIB.
	17.1	10a.	(OR)
COF	T7.4	155	, , ,
CO5	K4	15b.	Investigate the role of color bars in Histogram.

Course Outcome	Bloom's K-level	Q. No	$\frac{\text{SECTION} - C}{\text{Constant}} = 40 \text{ Marks}$ Answer ALL Questions choosing either (a) or (b)
CO1	K4	16a.	Examine Looping statement with example. (OR)
CO1	K4	16b.	Clarify the List methods in detail.
CO2	K5	17a.	What is dictionary? List and discuss about various operations supported by a dictionary. (OR)
CO2	K5	17b.	Evaluate Arrays in python using various examples.
CO3	K5	18a.	Assess the role of missing data on Pandas. (OR)
CO3	K5	18b.	Justify Combining data set in PANDAS I.
CO4	K5	19a.	Determine vectorized String operations on PANDAS II. (OR)
CO4	K5	19b.	Assess the role of time series in high performance pandas.
CO5	К6	20a.	Propose list and various types of PLOT functions in MATPLOTLIB. (OR)
CO5	К6	20b.	Formulate three-dimensional plotting in MATPLOTLIB.