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PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BCom DEGREE EXAMINATION DECEMBER 2023

(Fourth Semester)

Branch - COMMERCE (BUSINESS ANALYTICS)

R PROGRAMMING

			 				
	Time: Three Hours			Maximum: 50 Marks			
			SECTION-A				
			Answer ALL	a questions carry EQUAL ma	rks ($(5 \times 1 = 5)$	
	***		ADD questions	ourry DQUIAD ma	,	(0 11 1 0)	
1.		hat is R?. i) A statistical prog iii)A web developt	gramming language nent language	ii) A spreadsheet program iv)An operating system			
2.		> m <- matrix(nrov > dim(m)	• • •	•	: \ 1.5		
		i) 2 2	ii) 2 3	iii) 3 2	iv) 4 5		
3.		what function we i) Data.frames()	can create data frame ii) Data.sets ()		iv) C ()	ı	
4.	Which of the following finds row sums for each level of a grouping variable? i) as.numeric(x) ii) rowsum(x, group, reorder = TRUE,) iii) as.order(x) iv) colSums (x, na.rm = FALSE, dims = 1)						
5 .	. The graph can be saved as a pdf object in the local working space using						
	function.						
	-	i) pdf()	ii) plot()	iii) curve()	iv) sapp	ply()	
٠.			SECTION - B Answer ALL		, .		
			ALL Questions Car	rry EQUAL Mark	XS .	$(5 \times 3 = 15)$	
6.	a	a Explain about R Commands with examples. OR					
	b How to generate regular sequence in R with example?						
7.	a Classify about Ordered and Unordered Factors. OR						
	b Illustrate about apply() function in R with suitable example.						
8.	a How to reading data from Files? Explain.						
,		OR.					
	b How to loading Data from Other R Packages?						
9.	a Illustrate about Grouped Expressions. OR						
	b	Explain about Rep	peat Loop in R Progr	R Programming with example.			
10.	- · · · · · · · · · · · · · · · · · · ·						
		, ,	i) abline() OR	iii) points()	iv) leger	nd()	
	b Explain about various Mathematical annotation in R Programming.						

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry **EQUAL** Marks

 $(5 \times 6 = 30)$

11. a Discuss in detail about Functions and Features of R Programming.

OR

- b Examine the following
 - i) Character Vector
 - ii) Index Vector
- 12. a Analyze the following in R
 - i) tapply ()
 - ii) Ragged Arrays

OR

- b Write a R program to create two 2x3 matrix and add, subtract and multiply the matrices.
- 13. a Demonstrate about how to Constructing and Modifying Lists in R Programming? Explain with example.

OR

- b Explain the following in Data Frames
 - i) attach() function
 - ii) detach() function
- 14. a Write R program to check whether the given number is ODD or EVEN.

OR

- b Explain the following with example
 - i) For Loop
 - ii) While Loop
- 15. a Classify about High Level plotting Functions and its arguments in R Programming.

OR

- b Explain the following in R Programming
 - i) Using Graphics Parameters
 - ii) Graphics Parameters List

END