PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2025

(Sixth Semester)

Branch - INFORMATION TECHNOLOGY

R PROGRAMMING

	Ti	ime: Three Hours		Maximum: 50 Marks
		SECTION-Answer AL Answer AL ALL questions ca		$(5 \times 1 = 5)$
1			nd in R. package select	
2			und by de-parsing t dget() dput()	he R object?
3		**	ng R function? Sy Yesterday Date Some Date	s.Date()
4	i:		execute a block of while loop do-while loop	code repeatedly until a
5			er plot in R? scatter.smooth() plot()	
SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 15)				
6	a	a Narrate the limitation of R Programming. OR		
7	b	Explain data frame in R.		
7	a	Explain read.table function in R. OR		
	b	Show the salient feature of readr pac	kage.	
8	a b	Prepare short notes on times in R. OR Explain filter() package in R.		
9	a	Explain for loop statement in R.		
	b	OR Describe about break statement.		
10	a	Outline the features of random samp	ling.	
	b	Explain scatter plots.		

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SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Point out the steps to create a vector in R.

OR

- b Classify the importance of list in R.
- 12 a Examine the functionalities of reading from and writing to data a file.

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- b Discuss dput() and dump() functions.
- 13 a Point out the steps for extracting multiple elements of a list.

OR

- b Analye the dplyr package in R.
- 14 a Summarise the concepts of if-else statement with example.

OR

- b Highlight the importance of functions in R.
- 15 a Examine the features of the box-whisker plot function.

OR

b Discuss simple linear regression.

Z-Z-Z

END