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R16

SET - 1

II B. Tech I Semester Supplementary Examinations, May - 2018 STATISTICS WITH R PROGRAMMING

(Com to CSE & IT)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

2. Answer ALL the question in Part-A

3. Answer any **FOUR** Questions from **Part-B**

PART -A

PART -A			
1.	a)	What is variable scope?	(2M)
	b)	Explain about quote() function.	(2M)
	c)	Distinguish between max() and pmax() functions.	(2M)
	d)	Explain about R graphics devices.	(3M)
	e)	Explain normal distribution.	(3M)
	f)	Define random forest.	(2M)
PART -B			
2.	a)	Explain in detail about vectors in R.	(7M)
	b)	Discuss about matrices in R.	(7M)
3.	a)	Describe quick sort implementation using recursion.	(7M)
	b)	Justify the following: "R functions are first-class objects".	(7M)
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4.	a)	Write R code for the following: Three committees, of sizes 3, 4 and 5, are chosen from 20 people. What is the	(10M)
		probability that persons A and B are chosen for the same committee?	
	b)	What are the uses of scan() function? Explain with examples.	(7M)
5.	a)	Discuss about plot() and abline() functions with examples.	(7M)
	b)	Explain about two density estimates on the same graph.	(7M)
6.	a)	Discuss about ANOVA.	(7M)
	b)	Explain in detail about Poisson distribution.	(7M)
7.		Explain the following: a) Survival analysisb) Poisson regression	(7+7M)

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