Previous Question Papers

Code No: 138GT **R16**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year II Semester Examinations, September - 2020
R PROGRAMMING
(Electronics and Communication Engineering)

Time: 2 Hours **Max. Marks: 75**

Answer any Five Questions
All Questions Carry Equal Marks

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1.a)	R has five "atomic" classes of objects. What are they? Quote examples.	
b)	Make a comparison of implicit coercion and explicit coercion.	[7+8]
2.a)	Demonstrate repeat loop and seq_along ( ) function.	
b)	Explain argument matching in R functions.	[7+8]
3.	How to create a list and demonstrate all the ways of accessing a list component.	[15]
4.a)	Demonstrate finding the largest cells in a table.	
b)	What are the arguments in a call to table( )? Give example.	[7+8]
5.a)	What kind of tools does R has for simulation programming?	
b)	Discuss the significance of visualization and R's support for it.	[8+7]
6.a)	How are complex numbers handled in R? Explain with suitable examples.	
b)	How to import packages in R? Give examples.	[7+8]
7.a)	Illustrate the concept of recycling in vectors.	
b)	What effect does concatenate function has on vectors? Explain with an example.	[7+8]
8.a)	Which matrix operations are applicable to data frames? Explain with examples.	
b)	How to run a logistic regression model on data in a data frame? Give illustration.	[8+7]

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Q.P Code: AM3101PC/ DS3101PC Hall Ticket No.: | | | | | | | | | | |

NARSIMHA REDDY ENGINEERING COLLEGE

MODEL QUESTION PAPER

(UGC AUTONOMOUS)

III B.Tech I Semester (NR20) Regular Examination, January 2023

R-PROGRAMMING

(CSE / Common to Branch Names – DS/AI&ML)

Time :3 hours **Maximum marks: 75**

Note:
- This question paper contains two parts A and B
- Part A is compulsory which carries 25 marks (1st 5 sub questions are one from each unit carry 2 Marks each & Next 5 sub questions are one from each unit carry 3 Marks). Answer all questions in Part A
- Part B Consists of 5 Units. Answer any one full question from each unit. Each question carries 10 Marks and may have a, b sub questions

Part-A **(25 Marks)**

Answer all questions

Q.No		Question	M	BL	CO	PO
1)	a.	Why R-programming language?	2	L2	CO1	PO1
	b.	Write reading and writing data in R-programming?	2	L2	CO1	PO1
	c.	How do you assign a variable in R-programming?	2	L2	CO1	PO1
	d.	Write a while control structure in a R programming with an example?	2	L2	CO2	PO2
	e.	How to deleting elements of a matrices and arrays.	2	L3	CO2	PO2
	f.	Write about character strings in R programming?	3	L2	CO2	PO2
	g.	Define the list. give an examples	3	L1	CO3	PO3
	h.	How to find the length of the data frame in R programming.	3	L4	CO3	PO3
	i.	Define the factors. give an example	3	L1	CO4	PO4
	j.	Write an inheritance of OOP concept in R?	3	L1	CO5	PO5

Part-B **(50 Marks)**

Answer any five questions All Questions carry equal Marks

Q.No		Question	M	BL	CO	PO
2)	a.	Explain about data types in R programming. With an examples	5	L2	CO1	PO1

	b.	Write R program to demonstrate working with operators (arithmetic, logical, relational, assignment operators).	5	L4	CO1	PO1
3)	a.	Explain about sub setting methods in R programming	5	L3	CO1	PO1
	b.	Explain about array object in R programming with an example	5	L2	CO1	PO1
4)	a.	Explain about control structures with an example in R programming.	5	L2	CO2	PO2
	b.	Write a program to create a matrix using cbind() and rbind() functions.	5	L4	CO2	PO2
5)	a.	Explain about arithmetic and logical operations on vectors.	5	L3	CO2	PO2
	b.	Explain about functions in R programming	5	L3	CO2	PO2
6)	a.	Explain about list operations with an examples.	5	L2	CO3	PO3
	b.	Write a R program create a data frame.	5	L4	CO3	PO3
7)	a.	How to create the student details by using data frame. with an example	5	L2	CO3	PO3
	b.	How to convert list to matrix in R programming.	5	L3	CO3	PO3
8)	a.	Explain about factor object operations in R.	5	L3	CO4	PO4
	b.	Write a R program to access and modify components of a object	5	L4	CO4	PO4
9)	a.	Explain about operations of a table in R.	5	L3	CO4	PO4
	b.	Write a R program to find the factors of a number.	5	L4	CO4	PO4
10)	a.	Briefly explain about object-oriented programming concepts inR.	5	L2	CO5	PO4
	b.	Write an R program to create an S3 class and S3 object?	5	L4	CO5	PO5
11)	a.	Explain about inheritance of S4 class.	5	L2	CO5	PO5
	b.	How to get classes of columns in data frame in R.	5	L2	CO5	PO5

M – Marks **CO –** Course Outcomes **PO –** Program Outcomes
BL – Bloom's Taxonomy Levels (**L1**–Remembering, L2–Understanding, L3 – Applying, **L4 –** Analyzing ,**L5 –** Evaluating, **L6 –** Creating