

School of Computer Science

Unit wise Question Bank

UNIT-I

INTRODUCTION OF R-PROGRAMMING

S.No	Questions PART -A	BT	CO	PO
1	Why R-programming language?	L2	CO1	PO1
2	What are the features of R-programming language?	L1	CO1	PO1
3	What are the applications of R-programming language?	L1	CO1	PO1
4	What are the advantages of R-programming language?	L1	CO1	PO1
5	What are the dis-advantages of R-programming?	L1	CO1	PO1
6	Can you write and explain some of the most common syntaxes in R-programming?	L2	CO1	PO1
7	Write reading and writing data in R-programming?	L2	CO1	PO1
8	Write about integers in R-programming?	L2	CO1	PO1
9	How do you install a package in R programming?	L2	CO1	PO1
10	How do you assign a variable in R-programming?	L2	CO1	PO1
PART-B				
11	a) Explain about data types in R programming. With an examples	L2	CO1	PO1
	b) Explain about complex and rounding numbers in R programming with an example	L3	CO1	PO1
12	a) Explain about sub setting methods in R programming	L3	CO1	PO1
	b) Explain array object in R programming with an example	L2	CO1	PO1
13	a) Explain about objects in a R programming.	L2	CO1	PO1
	b) Write R program to demonstrate working with operators (arithmetic, logical, relational and, assignment operators).	L2	CO1	PO1
14	a) Explain operators in R programming.	L1	CO1	PO1
	b) Compare R programming and Python.	L4	CO1	PO1
15	a) Explain logical and relational operators in R programming with examples.	L2	CO1	PO1
	b) What is the essential need of R language?	L3	CO1	PO1

UNIT- II

CONTROL STRUCTURES AND VECTORS

S. No	Questions PART-A	BT	CO	PO
1	Write a while control structure in a R programming with an example?	L2	CO2	PO2
2	Write about next and break in R programming?	L2	CO2	PO2,P O4 PO5
3	Write short notes on built in functions in R Programming?	L2	CO2	PO2,P O4, PO5
4	How to declare the date and time functions in R Programming?	L2	CO2	PO2, PO4 ,PO5
5	What are the variable scoping rules in R programming?	L1	CO2	PO2, PO4

School of Computer Science

				,PO5
6	Write about character strings in R programming?	L2	CO2	PO2, PO4 ,PO5
7	How to find the length of a vector with an example.	L2	CO2	PO2, PO4 ,PO5
8	How to extracting elements of a vector using Sub scripts.	L2	CO2	PO2, PO4 ,PO5
9	How to deleting elements of a matrices and arrays.	L3	CO2	PO2, PO4 ,PO5
10	Write about scalars in a R programming.	L2	CO2	PO2, PO4 ,PO5
PART-B				
11	a) Explain about control structures with an example in R programming.	L2	CO2	PO2, PO4 ,PO5
	b) Explain about arithmetic and logical operations on vectors.	L3	CO2	PO2, PO4 ,PO5
12	a) Explain about types of vectors with examples in R programming.	L2	CO2	PO2, PO4 ,PO5
	b) Write an R program to create a vector and to access elements in a vector.	L4	CO2	PO2, PO4 ,PO5
13	a) Explain about vector operations in R programming with an examples.	L3	CO2	PO2, PO4 ,PO5
	b) Write a program to create a matrix using cbind() and rbind() functions.	L4	CO2	PO2, PO4 ,PO5
14	a) Explain about functions in R programming	L3	CO2	PO2, PO4 ,PO5
	b) Explain about vectors and subscripts and generating sequences in R programming.	L2	CO2	PO2, PO4 ,PO5
15	a) Explain about multiple and single element vector creation in R programming.	L4	CO2	PO2, PO4 ,PO5
	b) Explain about adding and deleting vector elements. With an examples.	L2	CO2	PO2, PO4 ,PO5

UNIT-III

LISTS

School of Computer Science

S.No	Questions PART-A	BT	CO	PO
1	Define the list. give an examples	L1	CO3	PO10, PO8, PO9
2	How to create the list in R programming?	L2	CO3	PO1, PO2
3	Write about list indexing adding and deleting list elements in R programming	L2	CO3	PO1, PO2
4	How to find the size of a list with an example?	L2	CO3	PO10 ,PO8, PO9
5	How to access the list elements from the list give an Example ?	L2	CO3	PO10 ,PO8, PO9
6	How to create data frames in a R programming?	L3	CO3	PO10 O8,P O9
7	How to create matrix in R programming?	L2	CO3	PO10 ,PO8, PO9
8	Write about matrix operations in R programming?	L2	CO3	PO10 ,PO8, PO9
9	How to access the elements from the data frame in R programming?	L2	CO3	PO10 ,PO8, PO9
10	How to find the length of the data frame in R Programming.	L4	CO3	PO10 ,PO8, PO9
PART-B				
11	a) Explain about list operations with examples.	L2	CO3	PO8, PO9, PO10
	b) Write a R program create a data frame.	L4	CO3	PO8, PO9, PO10
12	a) Explain about data frames operations in R programming.	L2	CO3	PO8, PO9, PO10
	b) Write a R program to access data frame like list.	L4	CO3	PO8, PO9, PO10
13	a) Explain about list with data frame give an examples	L2	CO3	PO8, PO9, PO10
	b) Explain about creating and adding of elements to the list give an example.	L3	CO3	PO8, PO9, PO10
14	a) How to create the student details by using data frame. with an example	L2	CO3	PO8, PO9, PO10

School of Computer Science

	b)	Explain about accessing and deleting elements from the data frame give an example.	L4	CO3	PO8, PO9, PO10
15	a)	How to convert list to matrix in R programming.	L3	CO3	PO8, PO9, PO10
	b)	Explain about accessing and deleting elements from the list give an example	L3	CO3	PO8, PO9, PO10

UNIT- IV:

FACTORS AND TABLES

S.No	Questions PART-A	BT	CO	PO	
1	Define the factors. give an example	L1	CO4	PO4, PO5, P10,	
2	How to create and access components of a factor.	L2	CO4	PO4, PO5, P10,	
3	How to change the order of levels of factors in R programming.	L3	CO4	PO4, PO5, P10,	
4	Write about generating factor levels in R programming.	L2	CO4	PO4, PO5, P10,	
5	How to modify factors in R programming.	L2	CO4	PO4, PO5, P10,	
6	Write about attributes of factors.	L1	CO4	PO4, PO5, P10,	
7	How to create a table in R?	L3	CO4	PO4, PO5, P10,	
8	How to find the largest cell of table in R?	L1	CO4	PO4, PO5, P10,	
9	How to add the levels to the factor?	L2	CO4	PO4, PO5, P10,	
10	What are operations of a table in R?	L2	CO4	PO4, PO5, P10,	
PART-B					
11	a)	Explain about factor object operations in R.	L3	CO4	PO4, PO5, P10,
	b)	Explain about attributes of a factor in R.	L2	CO4	PO4, PO5, P10,

School of Computer Science

12	a)	Explain about generating factor levels by using gl().	L3	CO4	PO4, PO5, P10,
	b)	Write a R program to access and modify components of a object.	L4	CO4	PO4, PO5, P10,
13	a)	Explain about operations of a table in R.	L3	CO4	PO4, PO5, P10,
	b)	Explain about statistical functions in R.	L1	CO4	PO4, PO5, P10,
14	a)	Explain about mathematical functions in R.	L1	CO4	PO4, PO5, P10,
	b)	Write a R program to create a factor.	L4	CO4	PO4, PO5, P10,
15	a)	Explain about statistical probability functions with an Example.	L2	CO4	PO4, PO5, P10,
	b)	Write a R program to find the factors of a number.	L4	CO4	PO4, PO5, P10,

UNIT- V:

OBJECT-ORIENTED PROGRAMMING

S. No	Questions PART-A	BT	CO	PO
1	How to create an S3 class?	L2	CO5	PO2, PO6, PO7
2	Write a short note on classes in R?	L2	CO5	PO2, PO6, PO7



School of Computer Science

3		How to create an S4 class?	L2	CO5	PO2, PO6, PO7
4		Write about reference classes in R?	L2	CO5	PO2, PO6, PO7
5		Write an inheritance of OOP concept in R?	L1	CO5	PO2, PO6, PO7
6		Define abstraction of OOP in R.	L1	CO5	PO2, PO6, PO7
7		Write a functions of S class in R?	L2	CO5	PO2, PO6, PO7
8		Define the class and object in R?	L1	CO5	PO2, PO6, PO7
9		What is the definition of polymorphism?	L1	CO5	PO2, PO6, PO7
10		Write about encapsulation of OOP in R?	L1	CO5	PO2, PO6, PO7
PART-B					
11	a)	Briefly explain about object-oriented programming concepts in R.	L2	CO5	PO2, PO6, PO7
	b)	Write an R program to create an S3 class and S3 object?	L4	CO5	PO2, PO6, PO7
12	a)	Explain about objects and classes in R.	L2	CO5	PO2, PO6, PO7
	b)	Write an R program to create reference class and modify its methods.	L4	CO5	PO2, PO6, PO7
13	a)	Explain about S3 class in R.	L1	CO5	PO2, PO6, PO7
	b)	Write an R program to write generic functions in S4 class.	L4	CO5	PO2, PO6, PO7
14	a)	Explain about S4 class in R.	L1	CO5	PO2, PO6, PO7
	b)	Write an R program to create an S4 class and S4 object.	L4	CO5	PO2, PO6,



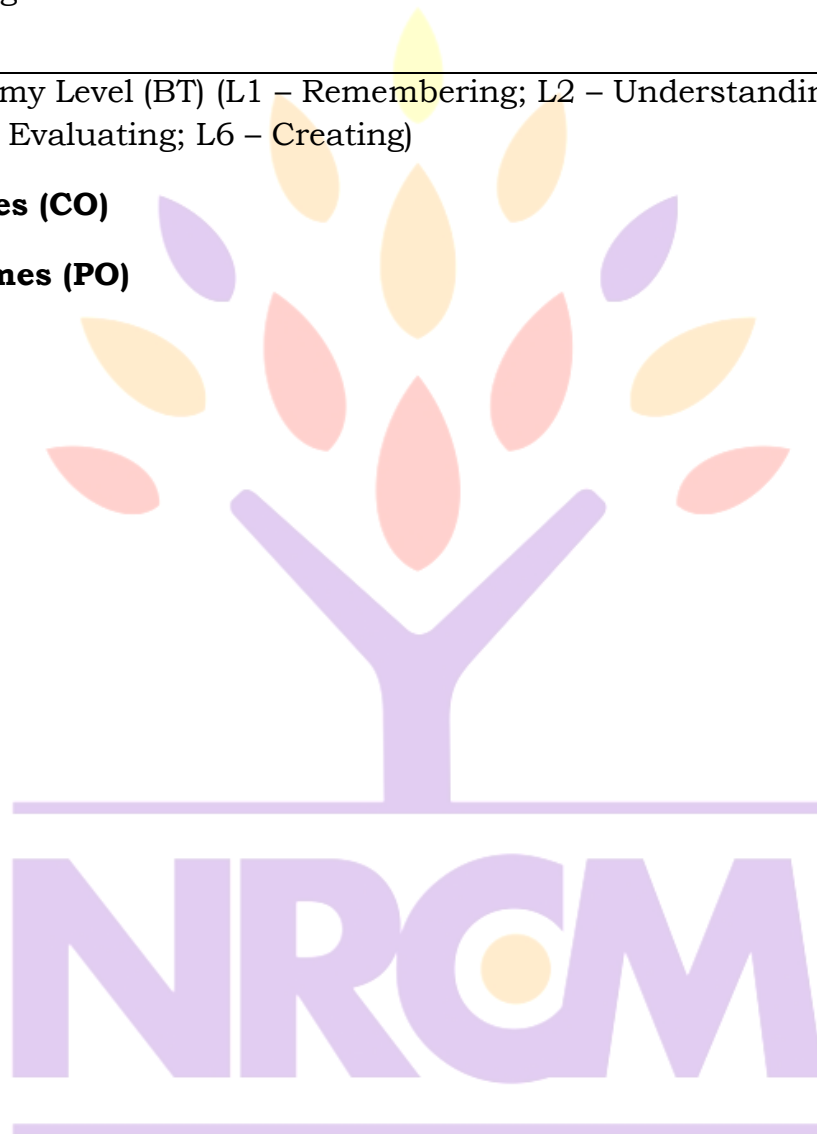
School of Computer Science

					PO7
15	a)	Explain about inheritance of S4 class.	L2	CO5	PO2, PO6, PO7
	b)	How to get classes of columns in data frame in R.	L2	CO5	PO2, PO6, PO7

* Blooms Taxonomy Level (BT) (L1 – Remembering; L2 – Understanding; L3 – Applying; L4 – Analyzing; L5 – Evaluating; L6 – Creating)

Course Outcomes (CO)

Program Outcomes (PO)



your roots to success...