



U8000

Reg. No.:

Name:.....



University of Kerala
First Semester Degree Examination, November 2024
Four Year Under Graduate Programme
Discipline Specific Core Course
Statistics
UK1DSCSTA111 Descriptive Statistics with R
Academic Level: 100-199

Time: 1½ Hours**Max.Marks:42**

Part A.

Answer All Questions, Objective Type. 1 Mark Each.
(Cognitive Level: Remember/Understand)
6 Marks. Time: 6 Minutes

Qn. No.	Question	Cognitive Level	Course Outcome (CO)
1.	Secondary data means	Remember	CO1
2.	Write the function in R to find the variance of observations	Remember	CO5
3.	A music store keeper wanted to see what people who bought his last album thought about the songs. Which choice best represents a sample? a.) Every person who bought the album. b.) A selection of people who didn't want to buy the album. c.) 750 girls who bought the album. d.) A selection of 5,370 people who bought the album.	Understand	CO2
4.	Name the scale of measurement which contains the absolute zero measurement	Understand	CO1
5.	Find the mode of the set of observations: 15,16,18,19,16,15,16,21,16,28,9	Understand	CO5
6.	Which function in R is used for creating barplots?	Understand	CO4

Part B.

Answer All Questions, Short Answer. 2 Marks Each.
(Cognitive Level: Understand/Apply)
8 Marks. Time: 24 Minutes

Qn. No.	Question	Cognitive Level	Course Outcome (CO)
7.	What do you mean by a quantitative data? Give an example of it.	Understand	CO1
8.	What do you mean by a contingency table?	Understand	CO3
9.	Identify the differences between discrete and continuous data.	Apply	CO1
10.	How would you determine skewness of a data?	Apply	CO5

Part C.

Answer all 4 Questions, choosing among options within each question.

Long Answer. 7 marks each.,(Cognitive Level: Apply/Analyse/Evaluate/Create)

28 Marks. Time: 60 Minutes

20 Marks: Time: 60 minutes										
Qn. No.	Question								Cognitive Level	Course Outcome (CO)
11A.	How will you access the consistency of the data of two types using R programming?								Apply	CO5
	Type A	462	782	668	431	391	801	573		
	Type B	578	751	694	638	479	695	493		
OR										
11B	How would you prepare a subdivided bar diagram using R programming for the following data?								Apply	CO4
	Year		2006	2007	2008	2009				
	Steel		11	15	19	13				
	Aluminium		18	18	8	7				
	Copper		10	19	15	6				
12A.	Explain various modes of classification of data								Analyze	CO1
OR										
12B	Explain scatter diagram and its benefits in a statistical analysis of data.								Analyze	CO3
13A.	How would you prepare a multiple bar diagram using R programming for the following data?								Evaluate	CO4
	Commodities				2022	2024				
	Bengal Gram (Black) (Rs/Quintal)				9200	11500				
	Coconut Oil (Rs/Quintal)				13900	14467				
	Rice Surekha (Rs/Quintal)				4150	4700				
	Sugar (Rs/Quintal)				3760	4047				
OR										
13B	Discuss about statistical population, census, primary and secondary data. Explain when will you chose secondary data over primary data.								Evaluate	CO1
14A.	Write an R Program to create a random sample of size 10 without replacement from the data: 89,11 100 100,67, 9,89,27,23,56 100,21,90,9,74,61,89,67,58,23,11,74,12,87,27,74,87,61,23,27								Create	CO1
OR										
14B	Age of 30 people in a locality is 5, 65, 62, 48, 5, 23, 17, 40, 30, 30, 30, 51, 5, 17, 17, 39, 23, 48, 40, 65, 65, 62, 5, 5, 17, 62, 51, 23, 48, 40. Write an R program to create a grouped frequency distribution with the classes 0-10,10-20,20-30,...								Create	CO3