



Reg. No.:

Name:

University of Kerala

W7206

Third Semester FYUGP Degree Examination, November 2025

Discipline Specific Elective

STATISTICS

UK3DSESTA202 - INTRODUCTION TO DATA ANALYSIS SOFTWARES

Academic Level: 200-299

2024 Admission

Time: 1 Hour 30 Minutes(90 Mins.)

Max. Marks: 42

Part A. 6 Marks.Time:6 Minutes.(Cognitive Level:Remember(RE)/Understand(UN)) Objective Type. 1 Mark Each.Answer all questions

Qn No.	Question	CL	CO
1	Which procedure in SAS is used to sort data?	RE	4
2	In R, the function used to read a CSV file is _____.	RE	2
3	What does the COUNTA function do?	UN	1
4	The step is used to read, modify and create data sets in R	UN	4
5	In SPSS, the Variable View is used to enter raw data values. State True / False	UN	3
6	The function used to display a summary of a dataset in R is _____.	UN	2

Part B.8 Marks.Time:24 Minutes.(Cognitive Level:Understand(UN)/Apply(AP))Short Answer. 2 marks each.Answer all questions

Qn No.	Question	CL	CO
7	The MERGE statement in SAS is used to: and	UN	4
8	How do you open an existing SPSS data file?	UN	3
9	Explain the use of the PROPER , UPPER , and LOWER text functions. How do they differ?	AP	1
10	Examine the steps to insert a new variable in SPSS?	AP	3

Qn No.	Question	CL	CO									
11	<p>A) Demonstrate how to use text functions like UPPER, LOWER, PROPER, LEFT, RIGHT, MID, and LEN in cleaning and preparing raw survey data for analysis. Provide practical examples.</p> <p>OR</p> <p>B) We can import data from different types of files/databases into SPSS. Give examples of such file types.</p>	AP	1, 3									
12	<p>A) Analyse how conditional functions such as SUMIF and COUNTIF can be used to identify performance trends in a dataset — for example, in student scores, sales targets, or employee attendance. Discuss the advantages of using these conditional functions over simple arithmetic formulas, with suitable examples.</p> <p>OR</p> <p>B) Write a SAS program to create a dataset named employee with the following data and print it using PROC PRINT:</p> <table border="1" data-bbox="124 1115 1393 1339"> <thead> <tr> <th>EmpID</th> <th>Name</th> <th>Salary</th> </tr> </thead> <tbody> <tr> <td>201</td> <td>John</td> <td>45000</td> </tr> <tr> <td>202</td> <td>Priya</td> <td>52000</td> </tr> </tbody> </table>	EmpID	Name	Salary	201	John	45000	202	Priya	52000	AN	1, 4
EmpID	Name	Salary										
201	John	45000										
202	Priya	52000										
13	<p>A) Describe how the PROC MEANS and PROC FREQ procedures can be applied in SAS to compute descriptive statistics for a given dataset. Include suitable examples.</p> <p>OR</p> <p>B) If a school wants to compare class averages across different subjects using a bar chart, explain how this chart can be created and customized for better visualization.</p>	EV	4, 1									
14	<p>A) Create a vector of 10 numbers and calculate mean, median, variance and CV.</p> <p>OR</p> <p>B) Create a spreadsheet model to track inventory where items less than 10 in stock are automatically highlighted. Mention formulas and formatting rules used.</p>	CR	2, 1									

Qn No.	Question	CL	CO