



Reg. No.: .....

Name: .....

## University of Kerala

First Semester FYUGP Degree Examination, December 2025

Discipline Specific Core Course

### STATISTICS

#### UK1DSCSTA103 - GEO STATISTICS I

Academic Level: 100-199

2024 Admission onwards

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	Mention any one need of statistics in geography.	RE	1
2	Give an example of qualitative data.	RE	2
3	The average of squared deviations from the arithmetic mean is known as -----	UN	3
4	Write two examples of qualitative data.	UN	2
5	What do you mean by sample?	UN	5
6	If variables are perfectly positively correlated, then correlation is .....	UN	8

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	Give one examples each of ratio scale data and interval scale data.	UN	2
8	For a certain frequency distribution, the mean was 40.5 and median was 36. Find mode by using of empirical relation.	UN	6
9	Find the value of Spearmann rank correlation coefficient. between two variables , where n=6 and sum of squares of difference in rank between the variables is 16.	AP	8
10	Compute the mean of the observations 2.5, 2.8, 3.6, 4.5, 1.2, 3.4	AP	6

Part C. 28 Marks.Time:60 Minutes (Cognitive Level:Apply(AP)/Analyse(AN)/Evaluate(EV)/Create(CR)) Long Answer.7 marks each.Answer all 4 Questions choosing among options \* within each question

Qn No.	Question	CL	CO
11	<p>A)</p> <p>Compare simple random sampling , systematic sampling and stratified sampling.</p> <p>OR</p> <p>B)</p> <p>Distinguish between sampling error and non sampling error. How can we reduce these errors?</p>	AP	5, 5
12	<p>A)</p> <p>Find the regression equation of Y on X</p> <p>X 5 2 3 1 6</p> <p>Y 4 6 2 5 1</p> <p>OR</p> <p>B)</p> <p>Obtain the two regression lines from the following information</p> <p>X Y</p> <p>Mean of X and Y are 36 and 85,</p> <p>Standard deviation of X and Y are 11 and 8</p> <p>Correlation coefficient=0.66</p>	AN	8, 8
13	<p>A)</p> <p>Evaluate coefficient of variation for the following data.</p> <p>4,7,12,14,18</p> <p>OR</p> <p>B)</p> <p>Evalaute mean deviation about median for the following data.</p> <p>0,3,7,16,22 28</p>	EV	6, 6
14	<p>A)</p> <p>Draw the histogram for the following data</p> <p>OR</p> <p>B)</p> <p>The type of soil found in Karnataka is as follows</p> <p>Represent the data using pie diagram.</p>	CR	4, 4