



Reg. No.:

Name:

University of Kerala

First Semester FYUGP Degree Examination, December 2025

Discipline Specific Core Course

STATISTICS

UK1DSCSTA105 - ELEMENTARY STATISTICS

Academic Level: 100-199

2024 Admission onwards

Time: 2 Hours(120 Mins)

Max. Marks: 56

Part A.6 Marks:Time 5 Minutes.(Cognitive Level :Remember(RE)/Understand(UN)) Objective Type.1 mark each,
Answer all questions

Qn No.	Question	CL	CO
1	Indian Statistical Institute is located at	RE	1
2	Write down the formula for calculating the Coefficient of Variation.	RE	6
3	What is Simple Random Sampling?	UN	3
4	The measure of asymmetry of the distribution is.....? Options : A)Kurtosis B)skewness C)leptokurtic D)Quartile deviation	UN	6
5	Define nominal data? Also give an example of nominal data?	UN	2
6	In _____ method, information is collected from every unit of the population.	UN	3

Part B.10 Marks.Time:20 Minutes (Cognitive Level:Understand(UN)/Apply(AP))Two-three sentences.2 marks each.Answer all questions

Qn No.	Question	CL	CO
7	The sum of deviation is minimum when taken from And is zero when taken from	UN	6
8	What is coefficient of variation?	UN	6
9	Give two applications of coefficient of variation.	AP	4
10	Provide any four significance of statistics.	AP	1
11	Calculate the mean of the data: 2, 4, 8, 10, 6.	AP	4

Qn No.	Question	CL	CO

Part C.16 Marks.Time:35 Minutes.(Cognitive Level :Apply(AP)/Analyse(AN))Short Answer.4 marks each, Answer all 4 questions,choosing among options * within each question

Qn No.	Question	CL	CO
12	<p>A) The Mean marks of 50 students is 60. Later it was discovered that a score of 63 marks was misread as 73. Find the Mean corresponding to the correct score.</p> <p>OR</p> <p>B) Describe a pie diagram with an example</p>	AP	4, 5
13	<p>A) Find out Karl Pearson's Coefficient of Skewness, given mean is 58, median is 62 and SD is 16.</p> <p>OR</p> <p>B) Prepare a blank table showing the preferred mode of transportation (Bus, Train, Scooter/Bike) with respect to gender (Male, Female, Transgender).</p>	AP	6, 4
14	<p>A) Discuss skewness and kurtosis. Draw diagrams for positively skewed, negatively skewed, leptokurtic, mesokurtic, and platykurtic distributions.</p> <p>OR</p> <p>B) Match the items in Column A with their correct pair in Column B.</p>	AN	6, 2
15	<p>A) Distinguish between simple random sampling and stratified random sampling and give the advantages of stratified random sampling over simple random sampling.</p> <p>OR</p> <p>B) Distinguish between diagrams and graphs.</p>	AN	3, 5

Part D.24 Marks.Time: 60 Minutes.(Cognitive Level :Analyse(AN)/Evaluate(EV)/Create(CR)) Long Answer 6 Marks each.Answer all 4 questions choosing among options * within each question

Qn No.	Question	CL	CO
16	<p>A) Compare bar diagram, histogram, and pie chart based on type of data.</p>	AN	3, 4

Qn No.	Question	CL	CO
	<p>OR</p> <p>B)</p> <p>Give a comparison between Arithmetic Mean, Median and Mode.</p>		
17	<p>A)</p> <p>The marks obtained by 2 students for 6 subjects are given below.</p> <p>Student 1: 45,46,48,32,29,45</p> <p>Student 2: 32,38,39,42,40,41</p> <p>Which student is more consistent?</p> <p>OR</p> <p>B)</p> <p>The marks obtained by 2 students for 5 subjects are given below.</p> <p>Student 1: 55,56,38,49,59</p> <p>Student 2: 58,39,52,40,41</p> <p>Which student is more consistent?</p>	EV	6, 6
18	<p>A)</p> <p>Find the mean, median, mode and standard deviation of the data: 24, 26, 28, 30, 32,45,48,58</p> <p>OR</p> <p>B)</p> <p>The average weight of 25 boys was 78.4 kg. It was later fund that the weight of one boy was misread as 60 kg instead of the correct value of 96 kg. Calculate the correct average.</p>	EV	6, 6
19	<p>A)</p> <p>The following is a record of the sizes of 25 shoes sold at a shoe mart on a particular date. Prepare an ungrouped frequency table.</p> <p>6,3,8,5,12,8,10,8,10,3,5,8,6,5,8,10,10,8,8,5,3,5,8,5,6</p> <p>OR</p> <p>B)</p> <p>The following data show the time allocation (in hours per day) by a student.</p> <p>Construct a pie chart to represent the above data.</p>	CR	4, 5