



Reg. No.:

Name:

University of Kerala

First Semester FYUGP Degree Examination, December 2025

Discipline Specific Core Course

STATISTICS

UK1DSCSTA104 - BEHAVIOURAL DATA ANALYTICS I

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	A circle drawn to represent statistical data is called _____.	RE	3
2	Which of the following is a function of statistics? Options : A)Summarizing data B)Decreasing data C)Altering data D)Ignoring data	RE	1
3	Write an example for discrete variable.	UN	3
4	Give an example of ratio scale variable	UN	3
5	Which of the following is a partition value? Options : A)Range B)Quartile C)Mean D)Mode	UN	4
6	The data which have been collected already for a purpose is called.....	UN	2

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	How can the histogram of a frequency table with unequal class intervals construct.	UN	3
8	What are the limitations of statistics?	UN	1
9	Distinguish between less than ogive and greater than ogive.	AP	3

Qn No.	Question	CL	CO
10	Distinguish between discrete and continuous variables with an example.	AP	3
11	Explain graphical method for finding median.	AP	4

Part C.16 Marks: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) Explain the need for statistical investigation with suitable examples.</p> <p>OR B) The following data are marks obtained by 30 students in an examination. Put the data in the form of a frequency distribution having 6 classes.</p> <p>5,13,52,62,70,65,68,20,40,11,46,57,73,24,0,65,37,15,6,63,10,50,10,3,32,46,58,61,23,70</p>	AP	1, 3
13	<p>A) What are the different methods of collecting Primary data With examples?</p> <p>OR B) Discuss the limitations of statistics.</p>	AP	2, 1
14	<p>A) How can the histogram of a frequency table with unequal class intervals constructed.</p> <p>OR B) Calculate the arithmetic mean of first 10 natural numbers.</p>	AN	3, 4
15	<p>A) The following table gives the profit and loss statement of a company for 4 years. Represent it by a bar diagram and analyze the diagram.</p> <p>OR B) Explain the difference between skewness and kurtosis.</p>	AN	3, 5

Qn No.	Question	CL	CO
16	<p>A)</p> <p>Mean = 40</p> <p>Median = 25</p> <p>Standard Deviation = 10</p> <p>Calculate Pearson's measure of skewness.</p> <p>OR</p> <p>B)</p> <p>Analyse the advantages and disadvantages of probability and non-probability sampling methods.</p>	AN	5, 2
17	<p>A)</p> <p>Given the following data representing the number of books read by 10 students:</p> <p>2, 3, 3, 5, 4, 2, 1, 4, 5, 3.</p> <p>Construct a discrete frequency distribution table and explain the process you followed.</p> <p>OR</p> <p>B)</p> <p>A researcher recorded the daily number of hours six different students spent studying last week:</p> <p>5, 8, 4, 3, 7, 6</p> <p>Calculate the mean and standard for this data set.</p>	EV	3, 4
18	<p>A)</p> <p>The following are the test scores of 12 students:</p> <p>18, 20, 14, 16, 22, 25, 20, 19, 17, 16, 24, 21.</p> <p>Prepare a grouped frequency distribution with 4 classes and explain the steps.</p> <p>OR</p> <p>B)</p> <p>Discuss the differences in creating discrete and continuous frequency distribution tables with examples.</p>	EV	3, 3
19	<p>A)</p> <p>The following are the monthly incomes (in ₹1000) of 22 households:</p> <p>12, 15, 18, 20, 22, 25, 25, 28, 30, 30, 32, 35, 36, 38, 40, 42, 45, 46, 48, 50, 52, 55</p> <p>Construct a frequency polygon using suitable class intervals and explain the steps.</p>	CR	3, 3

Qn No.	Question	CL	CO
	OR B) Explain pictogram and cartogram.		

Model QP