

Reg. No.:	
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Name:.....



University of Kerala

First Semester Degree Examination, November 2024
Four Year Under Graduate Programme
Discipline Specific Core Course
STATISTICS

UK1DSCSTA110 STATISTICAL METHODS-I

Academic Level: 100-199

Time: 1½ Hours Max.Marks: 42

Part A.

Answer All Questions, Objective Type. 1 Mark Each. 6 Marks. Time: 6 Minutes

Qn. No.	Question	Cognitive Level	Course Outcome (CO)
1	Define the term "harmonic mean."	Remember	CO2
2	Range is a measure of dispersion.	Remember	CO4
3	The β2 value for a mesokurtic curve is	Understand	CO4
4	The total number of partition values for percentiles is	Remember	CO3
5	The sum of squares of the deviations is minimum when deviations are taken from	Understand	CO4
6	Name any one source of secondary data	Understand	CO1

Part B.

Answer All Questions ,Short Answer. 2 Marks Each. 8 Marks. Time: 24 Minutes

Qn. No.	Question	Cognitive Level	Course Outcome (CO)
7	Define kurtosis and illustrate different measures of kurtosis.	Apply	CO4
8	Calculate the geometric mean for the following dataset: 10, 12, 15, 18, 20.	Apply	CO3
9	Explain different sources of secondary data.	Understand	CO2
10	Explain the difference between a census and a sample survey.	Apply	CO1

Part C.Answer all 4 Questions, choosing among options within each question.
Long Answer. 7 marks each., 28 Marks. Time: 60 Minutes

Qn. No.	Question	Cognitive Level	Course Outcome (CO)
	A. Explain the concept about measures of dispersion. OR B. Find out the variance		
11.	Seed yield No. of plants (f) in gms (x)	Apply	CO4
11.	2.5-3.5 4 3.5-4.5 6		
	4.5-5.5 12 5.5-6.5 12		
12.	6.5-7.5 8		
12.	 A. Describe how moments are useful in the calculation of moments OR B. Discuss about symmetry of the distribution. 15-25 17 25-35 21 35-45 25 45-55 12 55-65 9 65-75 17 	Apply	CO4
13.	A. Describe how diagrams are useful in representing statistical data.ORB. Describe the purpose of an Ogive graph in statistics.		CO2
14.	A. Calculate the standard deviation for the dataset: 2, 4, 6, 8, 10, and interpret the results. OR B. Evaluate the usefulness of standard deviation compared to other measures of dispersion, providing examples.		CO3