

Reg. No.:



Name:

University of Kerala

Y7788

Fourth Semester FYUGP Degree Examination, May 2026

Value Addition Courses

STATISTICS

UK4VACSTA203 - DATA ANALYSIS USING SPREADSHEETS

Academic Level: 200-299

2024 Admission

Time: 1 Hour

Max. Marks: 28

Part A. 4 Marks ,Time 5 Minutes (Cognitive Level :Remember(RE)/Understand(UN))Objective Type 1 mark each, Answer all questions

Qn No.	Question	CL	CO
1	The intersection of a row and column in a spreadsheet is called a _____.	RE	1
2	The value of correlation coefficient lies between _____	RE	2
3	Which graph is most suitable for showing trends over time? Options : A)Line graph B)Pie chart C)Histogram D)Bar chart	UN	3
4	If you want to compare sales of 5 products, you should use: Options : A)Scatter plot B)Bar chart C)Histogram D)Line graph	UN	3

Part B. 8 Marks ,Time 15 Minutes (Cognitive Level :Understand(UN)/Apply(AP))Short Answer 2 marks each, Answer all questions

Qn No.	Question	CL	CO
5	Explain mean deviation.	UN	2
6	What is the Formula Bar in a spreadsheet used for?	UN	1
7	The marks scored by a student in 10 examinations are: 55, 65, 70, 80, 60, 75, 68, 90, 72, 58. Find the range of the data.	AP	2
8	Quartiles are calculated for income data. How can this help in analysis?	AP	2

Part C. 16 Marks ,Time 40 Minutes (Cognitive Level :Apply(AP)/Analyse(AN)/Evaluate(EV)/Long Answer 4 marks each, Answer all questions choosing among options* within each question

Qn No.	Question	CL	CO												
9	A) Data: 10, 12, 14, 16, 18, 100 Find mean, median, range. OR B) Two variables, Study Hours (A2:A6) and Marks (B2:B6), are entered in a spreadsheet. a) Write the spreadsheet function used to obtain the correlation coefficient. b) Write the spreadsheet function that can be used to obtain the average study hours. c) Write the spreadsheet function used to obtain the average marks. d) Write the spreadsheet function that can be used to count the number of observations.	AP	2, 2												
10	A) Marks of students: 40, 50, 60, 70, 80 Calculate mean and standard deviation (conceptually). Analyze the consistency of student performance. OR B) A shop recorded the number of items sold in five days <table border="1"><tr><td>Day</td><td>Mon</td><td>Tue</td><td>Wed</td><td>Thu</td><td>Fri</td></tr><tr><td>Items sold</td><td>25</td><td>30</td><td>28</td><td>35</td><td>32</td></tr></table> Find the variance of daily sales	Day	Mon	Tue	Wed	Thu	Fri	Items sold	25	30	28	35	32	AN	2, 2
Day	Mon	Tue	Wed	Thu	Fri										
Items sold	25	30	28	35	32										
11	A) The "Slope" and "Intercept" functions of an excel worksheet gave the values 8.4 and is 33.2 respectively based on a bivariate data set (X,Y). Write the regression equation of Y on X. Also identify the type of correlation between the variables. Estimate the value of Y when X=10. OR B) Given below is the sales distribution of 5 products (categories). Evaluate the bar chart and answer:	EV	3, 3												

Qn No.	Question	CL	CO												
	Category Comparison by Value <table><tr><th>Category</th><th>Value (₹)</th></tr><tr><td>A</td><td>5000</td></tr><tr><td>B</td><td>8000</td></tr><tr><td>C</td><td>3000</td></tr><tr><td>D</td><td>7000</td></tr><tr><td>E</td><td>6000</td></tr></table> a) Which product has highest sales? b) Which product has lowest sales? c) Find the average sales.	Category	Value (₹)	A	5000	B	8000	C	3000	D	7000	E	6000		
Category	Value (₹)														
A	5000														
B	8000														
C	3000														
D	7000														
E	6000														
12	A) School attendance record shows attendance (%) over 5 days: Mon–90, Tue–85, Wed–88, Thu–92, Fri–95 Suggest a suitable chart to represent the data and explain the procedure to create it in spreadsheet. OR B) Create a monthly household expense spreadsheet and explain how can you present it using a suitable chart.	CR	3, 3												