



Daffodil International University
Faculty of Science & Information Technology
Department of Software Engineering
Quiz-1, Summer 2026
Course Code: DS411, Course Title: Statistical Data Analysis
Section: 41 E
Marks: 15

1. A sorted dataset in ascending order (small to big) of five integers has the same mean, median and mode, which appears 3 times out of 5. The sum of all the integers is 50. The range is 4. Find the dataset.
2. The distance between upper fence and lower fence is 24, what will be the IQR?
3. A boxplot has no outliers. The minimum value is 18 and the maximum value is 54. The distance from the minimum value to Q1 is 6, and the distance from Q3 to the upper fence is 9. Find the interquartile range (IQR).
4. A dataset having variables $x=(1,4,7,p)$ and $y=(2,4,6,q)$, what will be the value of p and q so that $r=1$.
5. Bonus(Optional): Given covariance(X,Y) is 25, $SD(x)=3$ and $SD(y)=2$. What will be the correlation? Justify your answer.