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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.