Duiz#01 Solution



National University



of Computer & Emerging Sciences Peshawar Campus

Student Nam	2:

Semester: Spring-2022 Time Allowed: 15 Min.

Course: Probability & Statistics

Total Marks: 10

Roll No:

Program: BS (CS & SE)

Examination: Quiz # 01 (Sec: B)

Date: 03 / 03 / 2022 Weightage: 2.5

Problem 1

Find the Interquartile range (IQR) of the following data:

70 36 43 69 82 48 34 62 35	15
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Problem 2

Which statistic is best for measuring the central tendency of the data. Give reason.

Soll We will first arrange the data in assending order, so we have:

9,15,19,22,24,25,34,35,35,36,36,37,38,42

43,46,48,54,55,56,56,59,62,69,70,82,82,

89,139.

Here n=30 (Number of Points)

For finding D1 we have P=1/4

So np=30(4)=7.5 (Not an integer)

So 0, is the 8th value.

So 10, = 834

Next for finding 03 we have P=3/4

So NP = 30(3) = 90 = 22.5 (Not a

So $NP = 30(\frac{3}{4}) = \frac{90}{4} = 22.5$ (Not 90) So O3 = 59 Thus IOR = 59 - 34 = 25 A

2 Sol 2 Sample-mean is the best statistic for measuring the central tendency of the data because it uses all the data values in the calculation. Furthermore it shows the balancing point of the whole data