Ministry of Higher Education & Scientific Research
Salahaddin University-Erbil
College of Administration and Economics
Department: Statistics and Informatics
Stage: First

Subject: Statistical methods
Date: 07 / 05 / 2024
Time: 2 Hours

Final Exam- Second Semester: First Trial 2023- 2024

Q1 Find **Median** for the following frequency distribution: (15 marks)

Classes	20-30	30-40	40-50	50-60	60-70	70-80	80-90
fi	5	9	10	11	9	10	6

Q2\\A (10 marks)

If $Yi = Xi + b$ where b is a constant,
then prove that $S_y^2 = S_x^2$

Q2\\B Find **variance** of the following data: (10 marks)

6, 5, 9, 10, 15

Q3 (10 marks)

1- Why might the range not be the best estimate of variability?

2- If the **Mean** of **four** values is (**6**) and three of values are (**5, 4, 10**) find the fourth value.

Q4 (15 marks)

Calculate part value (Q_2, D_7, P_{20})
(4, 6, 3, 10, 2, 13, 15, 11, 9, 5)

Good Luck

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