PATAN MULTIPLE CAMPUS

Practical – 3 Descriptive Statistics

Roll No.: 23

Program: BIT

Subject: Basic Statistics

Date: 2081-05-30

Semester: 2nd

Section: A

Question: Find (a) no. of observation, minimum value, maximum value, mean, median, mode, and range. (b) Find quartile, quartile deviation, inter-quartile range, standard deviation, variance, and coefficients of variation.

61	55	18	90	32	27	85	26	75
62	3	7	81	20	42	68	36	10

Working Expressions:

Calculation:

i. Data

61	55	18	90	32	27	85	26	75
62	3	7	81	20	42	68	36	10

ii. Syntax

a. DATASET ACTIVATE DataSet0.

FREQUENCIES VARIABLES=x y

/STATISTICS=RANGE MINIMUM MAXIMUM MEAN MEDIAN MODE /ORDER=ANALYSIS.

b. FREQUENCIES VARIABLES=x y

/NTILES=4

/STATISTICS=STDDEV VARIANCE SKEWNESS SESKEW KURTOSIS SEKURT

/ORDER=ANALYSIS.

iii. Output

a.

		Х	У
N	Valid	9	9
	Missing	0	0
Mean		52.11	36.56
Media	n	55.00	36.00
Mode		18 ^a	3 ^a
Range	•	72	78
Minimum		18	3
Maxim	um	90	81

a. Multiple modes exist. The smallest value is shown

b.

		X	У
N	Valid	9	9
	Missing	0	0
Std. Deviation	า	27.406	28.767
Variance		751.111	827.528
Skewness		.166	.328
Std. Error of Skewness		.717	.717
Kurtosis		-1.774	-1.480
Std. Error of Kurtosis		1.400	1.400
Percentiles	25	26.50	8.50
	50	55.00	36.00
	75	80.00	65.00