

## PATAN MULTIPLE CAMPUS

### Practical – 1: Descriptive Statistics

Roll No.: 23  
Program: BIT  
Subject: Basic Statistics

Date: 2081-05-30  
Semester: 2<sup>nd</sup>  
Section: A

**Question:** Find no. of observation, minimum value, maximum value, mean, median, quartiles, range, interquartile range, quartile deviation, coefficient of variation, skewness, kurtosis and outlier value of the following observations: 25, 3, 15, 20, 19, 20, 16, 15, 10, 10, 15, 25, 20, 16, 16, 15, 10, 8.

**Working Expressions:**

## Calculation:

### i. Data

25, 3, 15, 20, 19, 20, 16, 15, 10, 10, 15, 25, 20, 16, 16, 15, 10, 8

### ii. Syntax

FREQUENCIES VARIABLES=x

/NTILES=4

/STATISTICS=STDDEV VARIANCE RANGE MINIMUM MAXIMUM MEAN  
MEDIAN SKEWNESS SESKEW KURTOSIS SEKURT

/ORDER=ANALYSIS.

### iii. Output

x		
N	Valid	18
	Missing	0
Mean		15.33
Median		15.50
Std. Deviation		5.552
Variance		30.824
Skewness		-.393
Std. Error of Skewness		.536
Kurtosis		.115
Std. Error of Kurtosis		1.038
Range		22
Minimum		3
Maximum		25
Percentiles	25	10.00
	50	15.50
	75	20.00