



ASSIGNMENT NO. 2: Tools used in Six Sigma

Last date of submission: 21th November 2022 (Monday); during 11.15 am lecture

1. Develop frequency distribution and histogram for the following data.

36	25	38	46	55	68	72	55	36	38
67	45	22	48	91	46	52	61	58	55

2. Prepare a Pareto chart for studying defect in Shirt.

Type of defect	No. of defects
Defect in Collar	5
Defect in Sleeve	18
Defect in Button	9
Defect in Pocket	12
Defect in Cuff	10

3. Construct a Cause-and-Effect Diagram for “Low performance of students in exam”.

4. For the following:

34, 34, 26, 37, 42, 41, 35, 31, 41, 33, 30, 74, 33, 49, 38

- i) Find the median, lower quartile, upper quartile and the interquartile range.
ii) Draw a box and whisker plot, identifying any outliers.

5. Construct a normal probability plot on a **regular graph paper** for 4.1, 6.3, 6.9, 3.7, 6.6, 7, 5.6, 4.5, 3.9, 6.2. From the graph, obtain mean and standard deviation.