Statistics Worksheet-6

1. d) All of the mentioned

2. a) Discrete

3. a) pdf

4. c) mean

5. c) empirical mean

6. b) standard deviation

7. c) 0 and 1

8. b) bootstrap

9. a) frequency

10.

Sl no.	**Boxplot**	**Histogram**
1	It gives spread of the data.	It gives frequency distribution of data by grouping data into bins.
2	Measures like median, quantiles and IQR are explicitly represented in boxplots.	Measures like median, quantiles and IQR are not explicitly

		represented in histograms.
3	It is suitable to detect possible outliers with boxplot.	It is not a preferred method to detect outliers with histograms.

11. Metrics should be selected based on the problem statement and prioritizing the specifics goals.

12. Statistical significance can be assessed by first defining the null and alternate hypothesis, and doing hypothetical tests of a particular problem. Also, the domain knowledge is required to interpret the statistical significance of the test.

13. Global life expectancy

14. For skewed data usually in presence of outliers, median is better measure then mean.

15. Likelihood basically means to increase the chances of a particular event to occur by varying the characteristics of the data distribution. In a probability density functions, it is the y-axis value corresponding to any random variable/data in x-axis. Mathematically, it is defined as likelihood of the distribution given data,

i.e**., L(distribution|data).**