

No.	Topic	Assessments
1	Definition of Statistics, Variable and its Types (Quantitative and Qualitative Variables, Discrete & Continuous Variables). Difference Between Sample & Population, Difference Between Parameters and Statistic, Data, Types of data (Primary data Secondary Data).	
2	Presentation of data. Frequency Distribution, Introduction to graphical Representation, Simple Bar Chart, Multiple Bar Chart, Component bar Chart, Pie Diagrams, Histogram (Shape of the data: Symmetric and skewed), Examples and Applications	A1,
3	Measures of Central Tendency. Types of averages, Arithmetic Mean, Median, Mode, Quantiles and Weighted Arithmetic Mean Examples and Application	A2,
4	Measures of Dispersion, Range, Variance and Standard deviation, Interquartile range Box Plot. Examples and Application	A2,
5	Introduction to probability, objective and subjective approaches of probability. Random experiment, Sample space, Events, Simple and composite events. Mutually Exclusive Event, Independent and dependent events. Examples and Application.	
6	Combination and permutation. Examples and Application and its use in finding Probabilities.	A3
7	Conditional probability, Bayes' theorem, Example and Applications	A3
8	Random variable, Discrete random variable and its probability distribution.	
9	Continuous random variable and its probability density function.	
10	Binomial probability distribution Properties, its mean and variance, Applications, Problems related to the topics.	
11	Poisson Distribution, Properties, its mean and variance, Applications, Problems related to the topics. Hypergeometric distribution. Properties, its mean and variance, Applications, Problems related to the topics	A4, A5
12	Uniform Distribution, Properties, its mean and variance, Applications. Normal distribution, Properties, Estimation of Area under the normal curve using tables.	A6
13	Problems related to the Inverse use of Standard Normal table.	A6
14	Statistical Inference, Parameter Estimation, Confidence Intervals, Testing of Hypothesis.	A7
15	Covariance and Correlation, Application and Examples. Introduction to Regression Modelling.	A8
16	Linear Regression using OLS Method, Applications and examples. Advance in Statistical Modeling And R language	A9