BATCH DS23 statictics- WORKSHEET 1

1.A

2.A

3. B

4. C

5. C

6. B

7. B

8. A

9.C

10. Normal Distribution also known as Gaussian distribution is a continuous probability distribution which has a symmetric bell-shaped curve, with equal mean, median and mode at the peak of the curve.

11.Methods for imputing missing data in statistics is by using one of the three techniques: median , mode or mean.

12. A/B testing is statistical hypothesis testing method which tests different versions of a single variable against the subject's response to understand which variant is better effective.

13. No mean imputation is not a good practice as it means filling all missing data points with mean of the data and also serves from losing data points owing to missing values.However, it does not preserve relationship between variables and leads to underestimation of standard error.

14. Linear Regression is a Statistical algorithm to predict the relationship between the dependent and independent variables. It tries to find out how well does an independent variable influence a dependent variable.

15. The various branches of statistics are

a) Descriptive Statistics : which deals with the presentation and collection of data

b) Inferential Statictics : which deals with making predictions or inferences about a larger population bases on a sample of data.