**STATISTICS WORKSHEET**

**1.**A

**2.**A

**3.**D

**4.**A

**5.**C

**6.**A

**7.**B

**8.**A

**9.**D

**10.** The normal distribution is **a continuous probability distribution that is symmetrical on both sides of the mean**, so the right side of the center is a mirror image of the left side. The area under the normal distribution curve represents probability and the total area under the curve sums to one.

**11. Hot-Deck Imputation:-**Works by randomly choosing the missing value from a set of related and similar variables. Cold-Deck Imputation:-A systematically chosen value from an individual who has similar values on other variables. This is similar to Hot Deck in most ways, but removes the random variation.

* Complete Case Analysis(CCA):- This is a quite straightforward method of handling the Missing Data, which directly removes the rows that have missing data i.e we consider only those rows where we have complete data i.e data is not missing. ...
* Arbitrary Value Imputation. ...
* Frequent Category Imputation.

**12.** A/B testing is the process of comparing two variations of a page element, usually by testing users' response to variant A vs. variant B and concluding which of the two variants is more effective.

**13.**Yes

**14.** In statistics, linear regression is **a linear approach for modelling the relationship between a scalar response and one or more explanatory variables** (also known as dependent and independent variables).

**15.** The two main branches of statistics are **descriptive statistics and inferential statistics**.