

# Statistics

## Worksheet-3

- b)
- c) Binomial
- a) 2
- a) Type 1 error
- c)
- b) Increase
- b) hypothesis
- d) All of above
- a) 0

### Subjective Type: -

- Bayes' Theorem states that the conditional probability of an event, based on the occurrence of another event, is equal to the likelihood of the second event given the first event multiplied by the probability of the first event.
- Z-score indicates how much a given value differs from the standard deviation. The Z-score, or standard score, is the number of standard deviations a given data point lies above or below mean. Standard deviation is essentially a reflection of the amount of variability within a given data set.
- A t-test is a statistical test that compares the means of two samples. It is used in hypothesis testing, with a null hypothesis that the difference in

group means is zero and an alternate hypothesis that the difference in group means is different from zero.

- A percentile (or a centile) is a measure used in statistics indicating the value below which a given percentage of observations in a group of observations fall.
- A statistical method in which the variation in a set of observations is divided into distinct components known as ANOVA
- ANOVA is helpful for testing three or more variables. It is similar to multiple two-sample t-tests.