

## STATISTICS WORKSHEET-8

Ans1) a. The probability of rejecting  $H_0$  when  $H_1$  is true

Ans2) b. null hypothesis

Ans3) d. Type I error

Ans4) b. the t distribution with  $n - 1$  degrees of freedom

Ans5) a. accepting  $H_0$  when it is false

Ans6) d. a two-tailed test

Ans7) d. none of the above

Ans8) d. none of the above

Ans9) c.  $z < -z$

Ans10) c. the level of significance

Ans11) a. level of significance

Ans12) d. All of the Above

Ans13) Analysis of Variance, i.e. ANOVA in SPSS, is used for examining the differences in the mean values of the dependent variable associated with the effect of the controlled independent variables, after taking into account the influence of the uncontrolled independent variables.

Ans14) There are three primary assumptions in ANOVA: The responses for each factor level have a normal population distribution. These distributions have the same variance. The data are independent.

Ans15) In a one-way ANOVA, it focuses on simply one independent variable and one dependent variable. However, variables rarely exist in isolation in the real world. The two way ANOVA focuses on two independent variables to examine these more complex, real-life situations, thus increasing the external validity of the study.