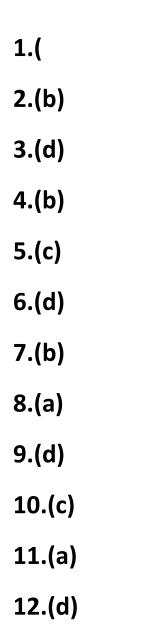
STATISTICS WORKSHEET 8



13.Ans:-Analysis of variance (ANOVA) is used when comparing the mean scores of more than two groups. One-way analysis of variance involves one independent variable (referred to as factor) which has a number of different levels (groups or conditions). The dependent

variable is a continuous variable.

- **14.Ans:-**The one-way ANOVA is used to determine whether there are any statistically significant differences between the means of three or more independent (unrelated) groups. A two-way ANOVA is an extension of the one-way ANOVA. With a one-way, you have one independent variable affecting a dependent variable.
- **15.Ans:-**A one-way ANOVA evaluates the impact of a sole factor on a sole response variable. It determines whether all the samples are the same. The one-way ANOVA is used to determine whether there are any statistically significant differences between the means of three or more independent (unrelated) groups.