



1- Basic concepts of Biostatistics

- Define Biostatistics
- Data in Biology
- Statistics in Veterinary and Animal Science
- Population and Sample
- Variable (Define – types)

2- Sampling techniques for biological research with special reference to the following Items

- Types of sampling
- Precautions should be considered during sampling

3- Descriptive statistics (Tabular and Graphic Presentation of data with examples)

4- Numerical description of data (Measures of central tendency – Measures of variation with solved examples for each)

5- Comparison between two samples (t-test) with solved examples

6- ANOVA (with solved examples)

7- Regression and Correlation Analysis (with solved examples)

8- Prepare an experimental design to compare between the effect of ration from two different company one of them containing 12% protein and the other containing 16% protein on body weight and body weight gain.

9- A medical company discovered a new medicine affecting the blood pressure, and decided to test the effect of this blood on patients. They registered the blood pressure before and after using the drug. Explain the proper test they can use it for this hypothesis.

10- Explain with example the proper test used to compare between three groups under the effect of only one factor.