## **BIO 304 – RESEARCH METHODS**

## INSTRUCTIONS: ANSWER THREE QUESTIONS, WITH AT LEAST ONE QUESTION FROM EACH SECTION TIME: 2 HOURS

## EXAM QUESTION ON DATA ANALYSIS

- 1. In order to determine the effect of treatment on plant growth, a randomized complete block design was used to allocate 4 treatments on 3 soil types. The following parameters of the plant were measured during the experiment (height, weight, and leaf area). From the above information
  - (a) Identify the Independent variable(s)
  - (b) Identify the dependent variable(s)
  - (c) Identify the confound variable(s)

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- (d) Write out the Null hypothesis (s) of this experiment
- (e) Name a statistical test will be suitable for analysing the collected data
- 2. List 2 differences between a bar chart and histogram.