



**PES University, Bangalore**

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**UE19CS203 – STATISTICS FOR DATA SCIENCE**

**Unit-1 - Introduction to Data Science**

**QUESTION BANK – SOLVED**

**Types of Data and Experiments**

1. Some researchers have proposed a new treatment for Alzheimer's disease. They divide their subjects into two random groups: one group gets this new treatment, while the other group gets the standard treatment. At the end of the study, the quality of life of all the subjects is assessed. Explain why the researchers decided to use two groups -one with the old treatment and one with the new- rather than just giving everyone the new treatment.

**[Other Sources]**

**Solution:**

- The old treatment group serves as a control group and allows the researchers to compare the new treatment with the old one.
- For the new treatment it acts as an Experiment group and it cannot be compared with the other.