# Assignment No.1 (Course STA 301)

# Summer Semester 2024 (Total Marks 20)

# Deadline

**Your Assignment must be uploaded/ submitted before or on August 30, 2024,Time 23:59**

**(STUDENTS ARE STRICTLY DIRECTED TO SUBMIT THEIR ASSIGNMENT BEFORE OR BY DUE DATE. NO ASSIGNMNENT AFTER DUE DATE WILL BE ACCEPTED VIA E.MAIL)**.

### *Rules for Marking*

**It should be clear that your Assignment will not get any credit IF:**

* **The Assignment submitted, via email, *after due date.***
* **The submitted Assignment is not found as MS Word document file.**
* **There will be unnecessary, extra or irrelevant material.**
* **The Statistical notations/symbols are not well-written i.e., without using MathType software.**
* **The Assignment will be copied from handouts, internet or from any other student’s file. Copied material (from handouts, any book or by any website) will be awarded ZERO MARKS. It is PLAGIARISM and an Academic Crime.**
* **The medium of the course is English. Assignment in Urdu or Roman languages will not be accepted.**
* **Assignment means Comprehensive yet precise accurate details about the given topic quoting different sources (books/articles/websites etc.). Do not rely only on handouts. You can take data/information from different authentic sources (like books, magazines, website etc.) BUT express/organize all the collected material in YOUR OWN WORDS. Only then you will get good marks.**

**Assignment no. 1 (Lessons 10-13)**

**Question 1: Marks: 10**

A quality control manager at a poultry farm is monitoring the weight of eggs produced. The weights of 20 randomly selected eggs (in grams) are as follows:

65, 68, 60, 76, 65, 74, 58, 56, 61, 57, 63, 64, 72, 66, 65, 67, 65, 63, 67, 67.

Find the coefficient of quartile deviation.

**Question 2: Marks: 10**

At a large manufacturing company, the following is a record of the working hours that were logged for different personnel. Calculate its coefficient of variation.

13, 23, 25, 30, 33, 36, 26, 24, 23, 28, 22, 25, 26, 29, 19, 23, 25, 30, 40, 39, 36, 38, 35, 32, 31, 30, 37, 33, 27, 26, 28, 24.