Q1.

What are variable sampling plans? Discuss some fundamental variable sampling plans (like the one based on Xbar and S^2) with their procedural details and performance evaluations.

Q2.

Review the following control charts and provide their design structures, run length properties, and their comparisons with the usual approach.

- Combined Shewhart-EWMA
- Combined Shewhart-CUSUM
- Double EWMA and Double CUSUM