**OM 302**

**Test 2**

**Study Guide**

**as of 11/10/21**

The following types of problems will be on the Test 2:

***Quality Objectives in Product Design:***

1. Calculate the Reliability of a system with components in series

2. Effects of building-in parallel redundancy

3. Calculate the value of MTBF, MTTR

4. Availability

***Statistical Process Control as Applied to Product Quality:***

5. x-charts: Calculate the UCL, LCL

6. p-charts: Calculate the UCL, LCL

7. R-charts: UCL, LCL

8. c-charts: UCL, LCL

***Production Capacity Planning and Unit Cost Management:***

9. Application of learning curves

10. Process Utilization, Efficiency, and Capacity