**OM 302 F22 Test 2 M Answer Sheet 11/7/22**

00:30:00

Last Name:


First Name:


Email address:


University's ID (last 4 digits):


This is your Test 2 answer sheet. You have 30 minutes to enter your answers. You are allowed one attempt. Please note the following:
1. When you are on the page with the problem #10, do not click"next" unless you ready to submit your work for grading.
2. Some problems are "multiple response" and will require more than one answer.
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Good Luck!!!

**Question 1 of 10**

Problem 1.

* a) In this section, please select the UCL (c-chart) (0 points)
* 9.8245 (10 points)
* 3.9 (0 points)
* 10.26 (0 points)
* 0.87 (0 points)
* 1 (0 points)
* 0 (0 points)
* b) In this section, please select the LCL (c-chart) (0 points)
* 0 (10 points)
* 800 (0 points)
* -2.02453 (0 points)
* 7 (0 points)
* 3 (0 points)
* c) In this section, please select the UCL(p-chart) (0 points)
* 0.09879 (10 points)
* 0.04 (0 points)
* 0.96 (0 points)
* 1 (0 points)
* d) in this section, please select the LCL (p-chart) (0 points)
* 0 (10 points)
* 1 (0 points)
* 9.8245 (0 points)
* 8,300 (0 points)
* -0.0188 (0 points)

***(10 points) | \_\_\_***

Correct

Incorrect

**Question 2 of 10**

Problem 2.

* a) In this section, please select the UCL (xbar) (0 points)
* 10.37 (10 points)
* 10.26 (0 points)
* 9.98 (0 points)
* 1.023 (0 points)
* 0.38 (0 points)
* b) In this section, please select the LCL (xbar) (0 points)
* 9.59 (10 points)
* 9.98 (0 points)
* 1.023 (0 points)
* 0.38 (0 points)
* 1 (0 points)
* c) In this section, please select the UCL (R-bar chart) (0 points)
* 0.98 (10 points)
* 2.574 (0 points)
* 0.38 (0 points)
* 2.282 (0 points)
* 0.729 (0 points)
* 1 (0 points)
* d) In this section, please select the LCL (R-bar chart) (0 points)
* 0 (10 points)
* 0.98 (0 points)
* 0.577 (0 points)
* 2.115 (0 points)
* 1.023 (0 points)

***(10 points) | \_\_\_***

Correct

Incorrect

**Question 3 of 10**

Problem 3. What is the availability?

* 94.5946% (0 points)
* 2,000 (0 points)
* 20 (0 points)
* 95.8234% (0 points)
* 99.8004% (10 points)
* 0 (0 points)

***(10 points) | \_\_\_***

Correct

Incorrect

**Question 4 of 10**

Problem 4. What is the MTBF?

* 5,650 (0 points)
* 8,300 (10 points)
* 20,000 (0 points)
* 16,600 (0 points)
* 3,400 (0 points)
* 0.0001205 (0 points)

***(10 points) | \_\_\_***

Correct

Incorrect

**Question 5 of 10**

Problem 5. What is the probability?

* 0.6065 (10 points)
* 16 (0 points)
* 32 (0 points)
* 8 (0 points)
* 16 (0 points)
* 0.6123 (0 points)
* 1 (0 points)
* 0 (0 points)

***(10 points) | \_\_\_***

Correct

Incorrect

**Question 6 of 10**

Problem 6.

* a) In this section, select the expected cost of the 10th unit: (0 points)
* 97.5% (0 points)
* $5,830 (0 points)
* $466,400 (10 points)
* $7,000 (0 points)
* 80 (0 points)
* b) In this section, select the expected cost of all 10 units: (0 points)
* $71,160 (0 points)
* $5,692,800 (10 points)
* 80 (0 points)
* 0.85 (0 points)
* 0 (0 points)
* c) In this section, select the calculated time to make the first unit: (0 points)
* $5,950 per unit (0 points)
* 5,950 hrs (10 points)
* $476,000 (0 points)
* $7,000 (0 points)
* $560,000 (0 points)

***(10 points) | \_\_\_***

Correct

Incorrect

**Question 7 of 10**

Problem 7. How many hours will it take to produce the 175 unit? Round- it-up to the next integer.

* 30 (10 points)
* 29 (0 points)
* 20 (0 points)
* 29,976 (0 points)
* 29.9765 (0 points)
* 175 (0 points)
* 200 (0 points)
* 240 (0 points)

***(10 points) | \_\_\_***

Correct

Incorrect

**Question 8 of 10**

Problem 8.

* a)In this section, select the vendors that should be eliminated: (0 points)
* Vendor 1 (10 points)
* Vendor 2 (0 points)
* Vendor 3 (10 points)
* b) In this section, select the overall reliability of the winning vendor (from the above section): (0 points)
* 0.8786 (0 points)
* 0.8792 (0 points)
* 0.8877 (10 points)
* 0.9940 (0 points)
* 15,000 (0 points)
* c) In this section, select the winning vendor (serial design): (0 points)
* Vendor 1 (0 points)
* Vendor 2 (0 points)
* Vendor 3 (10 points)
* d) In this section, select the reliability value of the winning vendor from the above section): (0 points)
* 0.57 (0 points)
* 0.58 (0 points)
* 0.66 (10 points)
* 0.8872 (0 points)
* 0.8792 (0 points)
* 0.8786 (0 points)
* 1 (0 points)
* 0 (0 points)

***(10 points) | \_\_\_***

Correct

Incorrect

**Question 9 of 10**

Problem 9. Select the calculated learning curve of this process:

* 0.50 (0 points)
* 0.55 (0 points)
* 0.60 (10 points)
* 0.65 (0 points)
* 0.70 (0 points)
* 0.75 (0 points)
* 0.80 (0 points)
* 0.85 (0 points)

***(10 points) | \_\_\_***

Correct

Incorrect

**Question 10 of 10**

Problem 10. Select the reliability of each part:

* 0.739168 (0 points)
* 0.985073 (0 points)
* 98.5% (0 points)
* 0.999865 (10 points)
* 0 (0 points)
* 20 (0 points)

***(10 points) | \_\_\_***

Correct

Incorrect

You have reached the end of this answer sheet. Click "next" when you are ready to submit your answers to be graded.