**OM 305 F24 Test 1 10/3/24**

00:45:00

Last Name:

First Name:

Email address:

University's ID (last 4 digits):

You have 45 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.  
  
  
  
.  
Good Luck!!!

**Question 1 of 10**

Problem 1.

* In this section, please select the UCL for Part a: (0 points)
* 5 (0 points)
* 11.7082 (10 points)
* -1.7082 (0 points)
* 0 (0 points)
* In this section, please select the LCL for Part a: (0 points)
* 11.7082 (0 points)
* -11.7085 (0 points)
* -1.7082 (0 points)
* 0 (10 points)
* -1 (0 points)
* In this section, please select the UCL for Part b: (0 points)
* 11.7082 (0 points)
* -0.01782 (0 points)
* 0.18216 (10 points)
* 0 (0 points)
* 200 (0 points)
* In this section, please select the LCL for Part b: (0 points)
* 0.9 (0 points)
* 0.1 (0 points)
* 0.18216 (0 points)
* 0.01782 (10 points)
* 0 (0 points)

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

Correct

Incorrect

**Question 2 of 10**

Problem 2.

* In this section, please select the UCL for Part a: (0 points)
* 0.5254 (0 points)
* 1.9600 (0 points)
* -1.9600 (0 points)
* 10.13 (10 points)
* 0.419 (0 points)
* In this section, please select the LCL for Part a: (0 points)
* 1.3533 (0 points)
* 0.05 (0 points)
* 9.79 (10 points)
* 10.13 (0 points)
* 0.41 (0 points)
* In this section, please select the UCL for Part b: (0 points)
* 0.076 (0 points)
* 0.419 (0 points)
* 0.79 (10 points)
* 1.924 (0 points)
* 5 (0 points)
* In this section, please select the LCL for Part b: (0 points)
* 0.076 (0 points)
* 0.419 (0 points)
* 0.03 (10 points)
* 4 (0 points)
* 5 (0 points)

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

Correct

Incorrect

**Question 3 of 10**

Problem 3. What is the Availability ?

* 0.9589 (10 points)
* 70 (0 points)
* 3 (0 points)
* 0 (0 points)
* -0.523 (0 points)
* -6 (0 points)

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

Correct

Incorrect

**Question 4 of 10**

Problem 4. What is the MTBF?

* 45,800 (0 points)
* 10.000 (10 points)
* 48,000 (0 points)
* 2,200 (0 points)
* -1,000 (0 points)

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

Correct

Incorrect

**Question 5 of 10**

Problem 5. What is the Probability?

* 0.5 (0 points)
* -0.5 (0 points)
* 1 (0 points)
* 0.5134 (10 points)
* -0.5134 (0 points)
* 2.71828 (0 points)

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

Correct

Incorrect

**Question 6 of 10**

Problem 6. What is the required reliability?

* 1.000 (0 points)
* 0.9999 (10 points)
* 0.02778 (0 points)
* 0.9973 (0 points)
* -1 (0 points)
* 0 (0 points)

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

Correct

Incorrect

**Question 7 of 10**

Problem 7.

* a) In this section, please select the cost of the single channel solution: (0 points)
* $82 (10 points)
* $45 (0 points)
* $60 (0 points)
* $22 (0 points)
* 3 (0 points)
* -$22 (0 points)
* b) in this section, please select the cost of the two-channel solution: (0 points)
* $61.45 (10 points)
* $20 (0 points)
* $22 (0 points)
* $45 (0 points)
* $60 (0 points)
* 0.8727 (0 points)
* c) In this section select the solution that is more cost effective: (0 points)
* Single-channel (0 points)
* Two-channel (10 points)

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

Correct

Incorrect

**Question 8 of 10**

Problem 8.

* a) In this section, please select the vendors that should be eliminated: (0 points)
* 1 (10 points)
* 2 (10 points)
* 3 (0 points)
* In this section, please select or the reliability of the selected solution: (0 points)
* 0.9405 (10 points)
* 1 (0 points)
* 0.5 (0 points)
* 0.8862 (0 points)
* 0.9147 (0 points)

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

Correct

Incorrect

**Question 9 of 10**

Problem 9. In this section select the value of P(4):

* 0.0492 (0 points)
* -2.861 (0 points)
* 3.375 (0 points)
* 0.1681 (10 points)
* -1 (0 points)

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

Correct

Incorrect

**Question 10 of 10**

Problem 10.

* a) In this section, please select the utilization rate: (0 points)
* 1 (10 points)
* 0 (0 points)
* 0.5 (0 points)
* -1 (0 points)
* b) In this section, please select the duration of the idle time: (0 points)
* 0 (10 points)
* 1 (0 points)
* 0.86603 (0 points)
* -8.00 (0 points)
* c) In this section select the duration of customer's wait time: (0 points)
* 0 (10 points)
* 1 (0 points)
* 15 (0 points)
* -1 (0 points)
* -0.5 (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.