**OM 302 S23 Test 3 v1**

**Answer Key**

**4/26/23**

00:30:00

Last Name:


First Name:


Email address:


University's ID (last 4 digits):


This is your Test 3 v1 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.
.

Good Luck!!!

**Question 1 of 10**

1. The shortest distance is:

* 981 (10 points)
* 1,144 (0 points)
* 1,235 (0 points)
* 1,162 (0 points)
* 1,306 (0 points)
* 1,310 (0 points)

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

Correct

Incorrect

**Question 2 of 10**

2. Indifference point is:

* 1,200,000 (0 points)
* 200,000 (0 points)
* 6 (0 points)
* 24 (10 points)
* 0.1666 (0 points)
* 0 (0 points)
* 4 (0 points)

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

Correct

Incorrect

**Question 3 of 10**

3. NWC approximation:

* In this section, select the total cost of the solution: (0 points)
* $50 (0 points)
* $12,699 (0 points)
* $4,200 (0 points)
* $1,000 (0 points)
* $1,500 (0 points)
* $300 (0 points)
* $12,250 (10 points)
* In this section, select one of the following: (0 points)
* the solution has a surplus (0 points)
* the solution has a deficit (10 points)
* the solution is balanced (0 points)
* In this section, select the number that represents the surplus, or the deficit, or the balanced solution: (0 points)
* 0 (0 points)
* 50 (10 points)
* 150 (0 points)
* 250 (0 points)
* 100 (0 points)
* 200 (0 points)
* 225 (0 points)

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

Correct

Incorrect

**Question 4 of 10**

4. Using the "Center of Gravity" method calculate the optimal x, y coordinates of the new distribution center:

* In this section, please select the "x" coordinate: (0 points)
* 1,180 (10 points)
* 1,345 (0 points)
* 1,700 (0 points)
* 1,150 (0 points)
* -1,350 (0 points)
* 6,250 (0 points)
* 1,450 (0 points)
* 5,100 (0 points)
* In this section, select the "y" coordinate: (0 points)
* -1,180 (0 points)
* 1,343 (10 points)
* -1,343 (0 points)
* 1,702 (0 points)
* 1,157 (0 points)
* 1,357 (0 points)
* 125 (0 points)
* 6,250 (0 points)

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

Correct

Incorrect

**Question 5 of 10**

5. The expected completion time for the activity G is:

* 7.166 (10 points)
* 6 (0 points)
* 12 (0 points)
* 4 (0 points)
* 4.5 (0 points)
* 3 (0 points)
* 0 (0 points)
* -7.17 (0 points)

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

Correct

Incorrect

**Question 6 of 10**

6. Which vendor should be selected? What is the overall score for this vendor?

* In this section, select the which vendor should be selected: (0 points)
* A (10 points)
* B (0 points)
* C (0 points)
* In this section, select the overall value of the above vendor? (0 points)
* 17.7 (10 points)
* 17.4 (0 points)
* 17.35 (0 points)
* 15 (0 points)
* 18 (0 points)
* 19 (0 points)

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

Correct

Incorrect

**Question 7 of 10**

7. What is the probability of completing this project within 25 weeks?

* 25% (0 points)
* 28.62% (10 points)
* 3.7222% (0 points)
* 1.9219% (0 points)
* -0.5183 (0 points)
* 1.7778 (0 points)
* 0.4444 (0 points)
* 0.6944 (0 points)
* 0.1111 (0 points)
* 30.21% (0 points)

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

Correct

Incorrect

**Question 8 of 10**

8. Calculate the distance using the Minimal Spanning Tree Method:

* 100 (0 points)
* 120 (0 points)
* 80 (0 points)
* 75 (0 points)
* 475 (10 points)
* 895 (0 points)
* 715 (0 points)
* 495 (0 points)

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

Correct

Incorrect

**Question 9 of 10**

9. Location

* In this section, select the preferred location: (0 points)
* Charleston (0 points)
* Juarez (10 points)
* In this section, select the cost per unit for the selected location: (0 points)
* 20 (0 points)
* $25 (0 points)
* $70 (0 points)
* $2.50 (0 points)
* $0 (0 points)
* $1.1667 (10 points)
* 1.25 (0 points)

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

Correct

Incorrect

**Question 10 of 10**

10. Select the expected completion time (in weeks):

* 19 (0 points)
* 17 (10 points)
* 15 (0 points)
* 16 (0 points)
* 20 (0 points)
* 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.