

Section 61 Operations and Supply Chain Management (DSCI 3152) Spring 2018

### Midterm Exam I

March 8, 2018

Name: \_\_\_\_\_ ID: \_\_\_\_\_

**Instructions:**

1. Show **all your work**. Clearly indicate your final answer.
2. Carry all computations to **two decimal places**.
3. **4 Problems**.
4. Total possible score is **100 points**.
5. In-class **2 hours** exam.

1. (10 points) A simple Linear Regression based on 5 weeks of data shows below

1 SUMMARY OUTPUT

2

3 Regression Statistics

4 Multiple R 0.081111

5 R Square 0.006579

6 Adjusted R -0.32456

7 Standard Error 2.243509

8 Observations 5

9

10 ANOVA

	df	SS	MS	F	Significance F
11 Regression	1	0.1	0.1	0.019864	0.89604
12 Residual	3	15.1	5.033333		
13 Total	4	15.2			

14

	Coefficient	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
15 Intercept	11.1	2.253052	4.717957	0.01804	3.411665	18.58834	3.611665	18.58834
16 X Variable 1	0.1	0.70948	0.140952	0.89604	-2.15782	2.357818	-2.15782	2.357818

a) What % of variation in the data is explained by the model? What is the p-value of the slope (week)? Is there a significant relationship between demand and time (at  $\alpha = 0.05$  significant level)?

b) Formulate a regression model according to the result shown below.

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