

Name:

Student ID:

BNAD 276. STATISTICAL INFERENCE IN MANAGEMENT

Pre-session. Summer 2017.

TAKE-HOME QUIZ 1. DUE DATE: 1PM WEDNESDAY 17 MAY 2017

NOTE:

1. There are total 10 questions. Answer all questions. The total points are 10.
2. Submit at the beginning of the lecture (1pm) on Wednesday 17 May 2017.

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1. (1 point) Write down the formula to calculate: (Each formula worths 0.25 point)
 - a) Sample mean

- b) Sample variance

- c) Sample covariance

- d) Sample correlation

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The following data is used for questions 2, 3, 4.

The following national weather report gives the temperatures and weather conditions on the previous day in cities across the nation.

City	Hi	Low	Condition
Albany, N.Y.	88	60	cloudy
Chicago	92	64	clear
Dallas-Ft.Worth	89	72	cloudy
Denver	75	54	clear
Hartford	88	61	cloudy
Honolulu	86	70	rain
Kansas City	93	74	clear
Los Angeles	80	62	cloudy
Nashville	94	72	clear
New York City	90	69	rain
Philadelphia	90	67	rain

2. How many variables are there in this data set? What are they? (1 point)

3. Which variable(s) is/are categorical and which is/are quantitative? (1 point)

4. Show the frequency distribution for the variable **Condition**? (1 point)

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9. Calculate the sample covariance of Price Per Gallon and Number of Gallons. (1 point)

10. Calculate the sample correlation between Price Per Gallon and Number of Gallons. (1 point)