

Practice Assessment 2

Name: **Answer Key**

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Closed book/notes. No calculators allowed. Fill in **one** choice for each multiple choice question below. No explanation is required to be shown and no partial credit will be given.

- (1 pt.) Dr. Medina is interested in studying the failure rate of a certain kind of car battery. Which of the following sampling methods leads to the least amount of sampling bias?
 - ① He chooses the most recent 428 cars that had the battery installed.
 - ② He selects every car that had the battery installed.
 - ③ He selects a simple random sample of 813 cars with the battery installed.
 - ④ All of the above will give the same amount of sampling bias.
- (1 pt.) Which of the following is an example of bias in sampling?
 - ① A study on college students' opinions of academic resources fails to include any freshmen.
 - ② Mr. Lange's smartwatch tells him he walked 2.25 miles when he walked 2.19 miles.
 - ③ 43% of individuals selected for participation in an opinion poll fail to respond.
 - ④ All of the above are examples of sampling bias.
- (8 pts.) Construct a stem-and-leaf plot for the data below. Include a key.

75 90 79 76 74 69 73 77

6		9
7		34567
8		
9		0

Key: 6|9 = 69

+2	for all leaves in numerical order	+2	for 8 stem with no entries
+1	for vertical bar	+1	for key
+2	for 6, 7, 9 stems		