

King Fahd University of Petroleum & Minerals
Department of Mathematics & Statistics
STAT-212-Term181
Quiz #1-16/9/2018

Name:

ID:

Serial:

An auditor for a government agency needs to evaluate payments by Medicare in a particular zip code during the month of June. A total of 25,068 visits occurred during June in this area. The audit was conducted on a sample of 29 of the reimbursements, with the following results:

- In 12 of the office visits, there was an incorrect amount of reimbursement.
 - The amount of reimbursement has mean equal to \$93.7 and standard deviation equal to \$34.55
- a. At the 0.05 level of significance, is there evidence that the population mean reimbursement was less than \$100?
- b. Using the p-value approach, is there evidence that the proportion of incorrect reimbursements in the population was greater than 0.10?