STAT319   Quiz 1   Monday February 13, 2012

Name: ——————————————   ID #: ——————————————

1) The graphs below show the box plot and the frequency histogram of yearly salaries of
    250 technical supports workers employed by a large software manufacturer.
    i)   Interpret the box plot.
    ii) Interpret the frequency histogram.
    iii) Compare the graphs. Do you prefer one over the other? If yes, why?

2) The figure below shows box plots representing the outcome of two computer chip manufacturing processes. Explain each box plot, and compare the two.

3) The following are the measured thicknesses of nine sheets of paper (in one-hundredth of a millimeter):

$$6.55 \quad 7.70 \quad 7.55 \quad 7.78 \quad 7.61 \quad 7.69 \quad 7.88 \quad 7.92 \quad 7.59$$

   i) Find the mean and the standard deviation of the thickness.
   ii) Draw a box plot.
   iii) Are there any outliers?