

# UNIVARIATE STATISTICAL ANALYSIS

## TUTORIAL SESSION 7

### HYPOTHESIS TESTING (TWO TAILED)

#### Extra Question 1.

Given that  $\bar{x} = 70$ ,  $\sigma = 12$  and  $n = 50$ , test the following hypotheses with  $\alpha = 0.01$

$$H_0: \mu = 66$$

$$H_a: \mu \neq 66$$

#### Extra Question 2.

From a normal population whose standard deviation is 6. Test with  $\alpha = 0.1$  sample of 30 and sample mean of 40. Can we conclude that the population mean differs from 35?

#### Extra Question 3.

Given that  $\bar{x} = 46$ ,  $s = 5$  and  $n = 9$ , test the following hypotheses with  $\alpha = 0.05$

$$H_0: \mu = 50$$

$$H_a: \mu \neq 50$$

#### Chapter 10

Question 10.49 (page.538) – Heart Rate  
Part a. only