I have made the third exam. It will be from material in Chapter 10 and the first part of 11. In particular, the exam will include the following types of questions ...

- 1) 12 multiple choice questions that are primarily based on definitions, symbols, etc.
- 2) 3 (out of 5 choices) short answer questions.
- 3) Compute a p-value and a confidence region like we did in class exercises (will use distrib() and some calculator work).
- 4) Two questions like the Chapter 10 HW. On one you will be required to use z.test() with a data file (Strawberries.txt) that you have read into R (prior to the exam, you should save this file to your T:/ drive and create a script to load the data into R. You can bring and use this file and script on the exam). The other question will use distrib() and some calculator work.

The following information will be provided on the exam.

11 Steps for any Significance Test

- **1.** [1] state the rejection criterion (α),
- 2. [2] state the null and alternative hypotheses to be tested and define the parameter(s),
- 3. [1] determine which hypothesis test to use thoroughly explain why,
- **4.** [1] collect the data (address type of study and randomization),
- 5. [2] check all necessary assumptions (explain how you tested the validity),
- **6.** [1] calculate the appropriate statistic(s),
- 7. [2] calculate the appropriate test statistic,
- 8. [2] calculate the p-value,
- 9. [1] state the rejection decision,
- 10. [2] summarize your findings in terms of the problem, and
- **11.** [2] if reject H_0 , compute a 100(1- α)% confidence region for the parameter.

In addition, I will provide the following information about R.

distrib(x,mean=##,sd=##,lower.tail=XXXXX,type="X")

```
where x is replaced by the value of the quantitative variable or the area
mean=## has ## replaced by the value of the mean
sd=## had ## replaced by the value of the standard deviation/error
lower.tail=XXXXX has XXXXX replaced with TRUE (the default) for a
    "left-of" and FALSE for a "right-of" calculation
    type="X" has X replaced with p (the default) for a forward and q for
    a reverse question
sqrt(x)
```

where x is replaced by a quantitative value

As per usual, you should bring a calculator, you should write your exam in pencil and not in ink, there will be multiple versions of the exam, and you will have to print the R code that you used.

conf.level=0.## has ## replaced by the level of confidence

Let me know if you have any questions.