

ATTENTION: The exam booklet should remain closed until your instructor says to begin. You must fill in your name and recitation instructor on the front of **EVERY SHEET** in the space provided.

The exam is closed book, closed notes. You may use a calculator. There is an equation sheet and table of constants for your use at the back of the exam. The equation sheet can be removed for ease of use, but make certain that your name is in the space provided on the equation sheet. You must turn in these sheets with your exam!

NOTE: The exam has two sections.

The first section consists of 10 multiple choice questions worth 4 points each. There is no partial credit in this section, your answer **must** be written with a **CAPITAL LETTER** in the space provided to receive credit. If your writing is ambiguous, it will be marked as incorrect.

The final section of the exam consists of 5 computational problems worth 12 points each. To obtain credit in this section, you must show all your work, and all work must appear on the sheet on which the problem is printed. Partial credit can be earned. If you need additional space, use the back side of the sheet that the problem is printed on.

You are allowed one hour and 48 minutes for the entire exam. Try to use this time effectively. It is worth considering how you plan to spend this time.

GOOD LUCK!