PHYS 411 (Fall 2012): Electricity and Magnetism Final exam: Thursday, December 13, 8.00-10.00 am.

Read the instructions below and do *not* flip to next page till you are told to do so.

Name:

Student ID:

It is necessary to show the *details* of the derivation and not just the final answer for *all* problems.

This is a closed book exam: crib sheets are not allowed.

Please write clearly and if you use the backside of a page, then please indicate so.

Check that there are total of 7 printed pages (6 problems and this page) + 1 blank page for doing problem 5.

Remember the honor pledge that you signed at the start of the semester.

| Problem # | Points scored | Maximum points |
|-----------|---------------|----------------|
| 1 | | 9 |
| 2 | | 12 |
| 3 | | 14 |
| 4 | | 8 |
| 5 | | 9 |
| 6 | | 8 |
| Total | | 60 |