

PHYS 1420 (Fall 2019) - Final Exam (A)

Name:

Student Number:

Instructions–

- **Read all instructions carefully.**
- Clearly write your name and student number above **BEFORE** you start the exam. Also, have your student ID out and on your desk (you may be asked for an invigilator to see it before/during/after the exam).
- Once the test begins, **the instructor and invigilators will not be able to answer questions**. You will need to interpret things as best you can and answer accordingly.
- Calculators can be used for this exam. Use of phones/tablets/computers/smart watches/etc... is not permitted.
- Feel free to use scratch paper (some is included at the back, feel free to detach it). You will not be graded upon what is on the scratch paper, though **you must turn it in with your exam**.
- You are allowed a formula sheet (8.5x11 in) to bring with you. It must be a single hard copy sheet of paper (though you can write on front and back). **You must turn such in with your exam**.
- This test has:
 - 50 T/F questions (Q1)
 - 31 multiple choice (Q2)
 - Six write-in problems (Q3-8)
 - One extra credit problem.

It is worth 100 points (with 110 total points possible). It is your responsibility to make sure that you have done all the problems!

- **For write-in problems:** Show all work clearly in order to get full credit. Points can be taken off if it is not clear to see how you arrived at your answer (even if the final answer is correct). Sketch all relevant graphs and explain all relevant mathematics. Circle/box your final answers. Please keep your written answers brief; be clear and to the point.
- Make sure to turn your test in as requested at the end of the exam period. Failure to do such can lead to a failing grade.