**Instructions**

Time allowed for this exam is 1 hour 15 minutes
10 written problems

For written problems:
Write all answers in the spaces provided. **An extra sheet is included at the back if you need more space for your calculations. Answers to questions involving calculations should be evaluated to appropriate significant figures and given in decimal form.** Despite an incorrect final result on written problems, credit may be obtained for method and working, provided these are clearly and legibly set out.

- Only required equipment may be placed on the desk.
- No talking permitted.
- **No questions. If you are unsure of what is being asked, take your best guess and state your reasoning.**
- Cell phones must be turned off.

**Equipment**

- This Question/Answer booklet
- **Equation sheet (need to be turned in with Question/Answer booklet)**
- Pens, pencil, eraser, ruler, water bottle
- Graphing or scientific calculator (cell phones may not be used as a calculator)