

December 19, 2007

Signature: _____

NUID No.: _____

Section (circle one):

Ahrendt (9:30)

Chouinard (10:30)

Leamer (8:30)

Shores (12:30)

Ahlschwede (6:30)

Chouinard (11:30)

Saccon (12:30)

Shores (1:30)

INSTRUCTIONS

- DO NOT OPEN THIS TEST BOOKLET UNTIL INSTRUCTED TO BEGIN.**
- Notes, books, etc. are not allowed. Calculators are allowed, but not laptop computers or equivalent, and no communication devices are allowed (this includes cell phones with calculators). **ALL CELL PHONES, PAGERS, AND SIMILAR DEVICES SHOULD BE TURNED OFF DURING THE EXAM!**
- Note that graphs or diagrams in the questions may not be drawn in the correct proportions.
- Simplify small integers and standard values in your answers (for example, 6 rather than $2 \cdot 3$, and $\frac{1}{2}$ rather than $\cos(\pi / 3)$). Answers which are functions do not need to be simplified unless the problem so states.
- The exact answer is required for full credit on all questions, e.g. π rather than 3.1416.
- Read the questions carefully, and answer them as completely as you can. (You can use the backs of pages if you need extra space, but indicate if you do so in the space below the problem.) **Please circle your answers.**
- On integral problems that say DO NOT EVALUATE, all work that would need to be done prior to integration (such as taking dot products, finding limits, and writing everything only in terms of the variables to be integrated) must be done.
- On all questions, **supporting work may be required** to get credit on the problem.
- Note that this test booklet has 8 pages of questions (plus this cover sheet).
- If a problem specifies a certain approach, little or no credit will be given for other approaches.
- There is a space on each page for you to put your name or initials in case pages become separated.

Problem	Points	Score
1	11	
2	10	
3	8	
4	19	
5	14	
6	14	
7	12	
8	12	
9	10	
10	14	
11	10	
12	15	
13	10	
14	14	
15	12	
16	15	
Total	200	

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