

Instructor: Prof. A. Suciu

Name: _____

MTH 1101 — QUIZ 5 — FALL 1996

Instructions: Put your name in the blanks above. Put your final answers to each question in the designated spaces on these test pages. Show your work—if there is not enough room, use the back of the page.

1) Compute:

5 points

a) $P(7,7) =$

b) $P(7,4) =$

c) $P(7,3) =$

d) $P(7,1) =$

e) $\frac{999!}{998!} =$

2) In how many different ways can five people be lined up for a picture?

5 points

3) How many ways are there to fill out the answer sheet to a six-question test, if the first two questions are to be answered “true” or “false,” and the other four “yes,” “no,” or “maybe”?

5 points

4) How many different license plates consisting of one letter, followed by a one-, two-, or three-digit number are there? 5 points

5) How many different four-letter words (meaningful or not) can be formed from the letters in the word **CRYSTAL**? 5 points

6) How many distinct arrangements of the letters in the word **NORTHEASTERN** are there? 5 points