## Prerequisite Test

BASICS OF COMPUTING (CSCE 101, SPRING 2007) URL: http://my.unl.edu
16th January, 2007

(20 points)

Name :

Course No : CSCE105

- 1. (1 point each) Evaluate the following:
  - (a)  $4^3$
  - (b)  $7^0$
  - (c) 5!

  - (e)  $5.766 \times 10^{2} \\ + 4.56 \times 10^{3}$
- 2. (4 points) How many different ways are there to arrange the four letters A, B, C, and D? (Each letter appears exactly once in each 'word'.)

1?

3. (4 points) How many different numbers can be written using three digits, each of which

- 4. (1 point each) Given the set of steps:
  - 1. Put a log on the fire
  - 2. Wait 5 minutes.

 $\bullet$  0 and 1

- 3. If the temperature is still below 75, repeat steps 1-3.
- 4. Lie back and relax

At which temperatures would step 4 be reached? (Circle all that apply)

- (a) 74
- (b) 72
- (c) 75
- (d) 78
- 5. (3 points) Given the equation:

$$x^2 - 7x + 12 = 0$$

What is the value of x?

Answer Box:		