Discrete Math I – Statistics/Announcements for Final Exam

Final Exam – Page 1				
P	**Description**	*A %*	*M %*	**O**
1a	True/false question about logical equivalences	*95*	*100*	**2**
1b	True/false question about quantifiers	*62*	*100*	**2**
1c	True/false question about irrational numbers	*81*	*100*	**2**
1d1	Number of elements in a power set	*75*	*90*	**2**
1d2	Number of elements in a Cartesian product	*83*	*100*	**2**
1e	Write the terms of a sequence	*80*	*100*	**3**
2	Mathematical proof that required you to use the contrapositive	*76*	*85*	**15**
3a	Composition evaluation	*95*	*100*	**2**
3b	Image of a set through a given function	*87*	*95*	**3**
3c	Preimage of a set through the same function	*72*	*70*	**3**
3d	Tough question about the fixed points of the function	*47*	*50*	**2**
4a	Which of the five given functions are 1-1?	*85*	*80*	**5**
4b	Which of the five given functions are onto?	*73*	*70*	**4**
5	Number of elements in a set	*75*	*100*	**1**
5a	Write elements in a set	*84*	*100*	**4**
5b	Write elements (ordered pairs) in a set	*73*	*85*	**4**
Ec1	Did you notice the extra credit opportunity buried in the directions? {16 students received all or some of the credit available}			**0.5**

Final Exam – Page 2				
P	**Description**	*A %*	*M %*	**O**
6a	Prime factorization of a permutation	*60*	*60*	**3**
6b	Modulus of a number	*90*	*100*	**3**
6c	True/false question about integers and divides	*40*	*10*	**2**
6d	Greatest common divisor of two numbers	*80*	*100*	**3**
6e	Another greatest common divisor of two numbers	*90*	*90*	**3**
6f	Product problem	*80*	*90*	**3**
6g1	Socks in a drawer, part 1	*90*	*100*	**2**
6g2	Socks in a drawer, part 2	*90*	*100*	**2**
Ec2	An Euler phi-function problem {two students received all or some of the credit available}			**1.5**
7	Extended Euclidean algorithm problem	*90*	*100*	**10**
8	Weak induction problem	*60*	*80*	**10**

Final Exam – Page 3				
P	**Description**	*A %*	*M %*	**O**
9	Proof using Pigeonhole Principle	*70*	*80*	**8**
10a	Basic counting question involving voting, part 1	*92*	*100*	**4**
10b	Basic counting question involving voting, part 2	*95*	*100*	**4**
Ec3	Find the form of a given sequence {1 student got it}			**1.5**
11a	Counting question about bits of a given length, part 1	*92*	*100*	**4**
11b	Counting question about bits of a given length, part 2	*92*	*100*	**4**
11c	Counting question about bits of a given length, part 3	*59*	*50*	**3**
11d	Counting question about bits of a given length, part 4	*58*	*60*	**3**
12a	Counting question about a club of 18 men and women	*88*	*100*	**4**
12b1	Counting question about selecting a committee for the club, part 1	*92*	*100*	**4**
12b2	Counting question about selecting a committee for the club, part 1	*81*	*80*	**4**
12b3	Counting question about selecting a committee for the club, part 1	*85*	*100*	**4**
12b4	Counting question about selecting a committee for the club, part 1	*56*	*50*	**3**

The final exams must remain in my office for one year. You can stop by anytime that you want to take a look at them.

Have a good break.