M E T U
Department of Mathematics

Group	Discrete Mathematics Midterm 2	Last No.
Code : Math 112 Acad. Year : 2010 Semester : Spring Instructor : A. S., K. Z., O. K. Date : May 6, 2010 Time : 17:30 Duration : 90 minutes	Last Name : Name : Student No. : Department : Section : Signature : 6 QUESTIONS ON 4 PAGES 60 TOTAL POINTS	

1	2	3	4	5	6		

- **Justify your answers!** Correct answers without explanation may receive no credit.
- **There are 6 questions on 4 pages. Check for typographical errors before the exam.**

1. (10pts) Find the number of solutions of the equation

$$x_1 + x_2 + x_3 + x_4 = 17$$

where x_i are integers such that $1 \le x_i \le 6$ for all $1 \le i \le 4$.

Substitute $y_i = x_i - 1$ to get

$y_1 + y_2 + y_3 + y_4 = 13$, $0 \le y_i \le 5$ for all $1 \le i \le 4$.

$S_0 = \binom{13+4-1}{13} = \binom{16}{13}$

Let c_i be the condition that $y_i \ge 6$.

Then $N(c_1)$ = nb of solns to $y_1 + y_2 + y_3 + y_4 = 7$ where $y_i \ge 0$, for $1 \le i \le 4$. So $N(c_1) = \binom{7+4-1}{7} = \binom{10}{7}$

$N(c_1 c_2)$ = nb of solns to $y_1 + y_2 + y_3 + y_4 = 1$ where $y_i \ge 0$ for $1 \le i \le 4$. So $N(c_1 c_2) = \binom{1+4-1}{1} = \binom{4}{1}$

$N(c_1 c_2 c_3) = 0$. Hence

$N(\bar{c}_1 \bar{c}_2 \bar{c}_3 \bar{c}_4) = \binom{16}{13} - 4\binom{10}{7} + \binom{4}{2}\binom{4}{1}$.

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