Mussumurob Hukonañ Bapuann 3.

Masmusa 1. Ombemu k zagaran.

No	OTBET
1	C <sub>3</sub>
2	C233
3	37,941,192
4	1495
5	256
6	413100
7	a) $N=22$ un $N=20$ $\delta S C_{27}^{5}-6.C_{20}^{5}$
8	<u>454</u> <u>455</u>

$$\frac{6}{9}$$
 equality  $\frac{7}{3} = > \frac{6}{9}$ 

$$\begin{cases} X_1 + X_2 + X_3 + ... + X_{40} = 180 \\ X_1 \ge -2 \end{cases}$$

$$\begin{cases} y_1 + y_2 + y_3 + \dots + y_{40} = 180 + 3.40 = 300 \\ y_1 > 1 \end{cases}$$

Ombem: 37.941.132

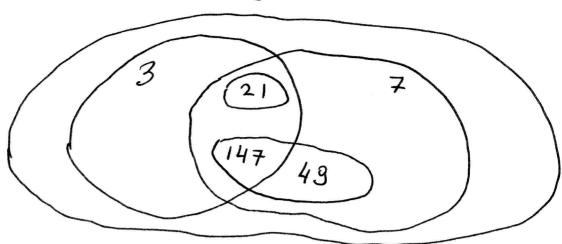
$$4 = \{a, b, c, d, e\}$$

$$X_{10} = 4 + 3.5 + 4.5^2 + 1.5^3 + 2.5^4 = 101494$$

$$C = 2$$

$$0 = 3$$

Ombem: 1495



$$\{A\} - \{3\} - \{49\} + \{147\} =$$
  
= 375 - 115 - 46 + 42 = 256

## Ombem: 256

$$128 = 5 \cdot 25 + 3$$

$$25 = 6.4 + 1$$

$$4 = 7.0 + 4$$

$$X = 413100$$

Ombem: 5263147

$$\begin{array}{ll}
\overrightarrow{7} & X_{1}X_{2}X_{3}X_{4}X_{5}X_{6} & X_{1} \in [0], \cancel{3}, 7] \\
A) & X_{1} + X_{2} + 6 = X_{8} + X_{4} + X_{5} + X_{6} \\
& X_{i} = \alpha_{i}, i \leq 7 \\
& X_{i} = 7 - \alpha_{i}, i > 7 \\
& \alpha_{1} + \alpha_{2} + 6 = 76 - \alpha_{3} + 7 - \alpha_{4} + 7 - \alpha_{5} + 7 - \alpha_{6} \\
& \alpha_{1} + \alpha_{2} + \alpha_{3} + \alpha_{4} + \alpha_{5} + \alpha_{6} = 22 \\
& N = 22 \\
& X_{i} = 7 - \alpha_{i}, i \leq 37 \\
& X_{i} = \alpha_{i}, i > 7
\end{array}$$

$$7-a_1+7-a_2+6=a_3+a_4+a_5+a_6$$
  
 $a_1+a_2+a_3+a_4+a_5+a_6=20$   
 $N=20$ 

$$a_1 + a_2 + a_3 + a_4 + a_5 + a_6 = 22$$

1.  $a_i > 0 = > \binom{6-1}{22+6-1} = \binom{5}{27}$ 

2.  $a_i > 7$ 

$$a_1' = a_1 - 7$$

$$\alpha_1 - 7 + \alpha_2 + \alpha_3 + \alpha_4 + \alpha_5 + \alpha_6 = 22 - 7$$
  
 $\alpha_1' + \alpha_2 + \alpha_5 + \alpha_4 + \alpha_5 + \alpha_6 = 15$ 

$$C_{15+6-1}^{6-1} = C_{5}^{20}$$

$$\left[\binom{5}{24} - 6 \cdot \binom{5}{20}\right]$$

TT anocos  $\alpha_1 + \alpha_2 + \alpha_3 + \alpha_4 + \alpha_5 + \alpha_6 = 22$ ,  $\alpha_1 \in [0, 7]$  $(1+X+X^2+...+X^7)^6=...+k_{22}X^{22}+...$ X22 = X91. X42.... X46 = X91+42+...+46 => 22 = 41+ 42+...+ 46  $f = (1 + X + X^2 + ... + X^7)^6 = \left(\frac{1 - X^8}{1 - X}\right)^6 = \frac{(1 - X^8)^6}{(1 - X)^6}$  $\frac{1}{1-x} = 1+x+x^{2}+...x^{n}+...$   $f = (1-x^{8})^{6} \cdot \left(\frac{1}{1-x}\right)^{6}$   $= > f = (1-x^{8})^{6} \cdot (1+x_{1}+x_{2}+...+x^{n}+...)^{6}$  $(1-x^8)^6 = 1-6x^8 + \dots$  $(1+X+X^{2}+...+X^{n}+...)^{6} = \int_{2\pi}^{5} X^{22} + \int_{20}^{5} X^{14}$  $(41-6X^8)(...+C_{27}^5X^{22}+C_{20}^5X^{14})=(C_{27}^5-6C_{20}^5)X^{22}$ Ombern: C= - 6 C= N = 22 min N = 20

Ombem: 454