Criptografie tema-1

(1)

a) "The Da Vinei Code" - Dan Brown

b) " The himitation bome" - Andrew Hodges

c) "Between Silk and Cyanible" - Leo Horks.

(2) A=(101000 110101), B=(100001111011)2

Porl 1: A-B

000 11 011 1 010 10000111 1011

Pomez: B- (A-B) Pont 3:

0000011110110

01010000011

Posel 41

0101000001110

001101001101-

000110010011

Pond 6

000110011000 000110010011
00011001000 00000000011
00010010000 00000000011

000101000101

Pool 9 000101000101 -000000100111 Popul 10 000100011110 -

000011111111

Port 11 0000 1111 1111 - 0000 1101 1100

Port 13 000011011000 -

Pont 13 0000 1011 0001 0000 000100111 00001000 1010. Ponel 14 -010100010000 111001000000 00001100011

3

Ponul 15 -11 000 11 0000 11 -11100100000 000001000100

Port 16 000001000100 111001000000 101110000000

emmde = (1101)2 11012=18 23+2+1=13

Numoul de poss depode de côte où fulen îmforts num de la b pui gi le o No de posi = logo (N)

Does Neste regier en le 5.72, otrus glos N × 24, des log 5(N) & logs(24) = ka ly 6 (2) => Complexate 014

(1) 0)100100 2 = (1)10

100100= 1.75 1 1.2 = 3244=36

b) (27)16 = 11/16

2F= 2.16 + 15.1= 32+15=47

c) 3316 = 14

331 = 3.62+3.6+1= 3.36+3.6+1=(08+18-1=127

127 4 31 31 4

d) 2. 13= 26;

(6)
$$12^{60} \pmod{41} = (12^2)^{30} = (144)^{30} = (67^2)^{3} = (4489)^{4489}$$

= $23(23^2)^{\frac{1}{4}} = 25(67)^{\frac{1}{4}} = 25 \cdot 67(67^2)^{\frac{3}{4}} = (23)^{\frac{3}{4}} = 25(25^7) = 25 \cdot 67$