

L2

25/26

# Network-telecom n

## Replacement - EXAM.

1) Answers : (Course-Support) (12pts)

Exo1

1)  $E[x] = 6,77$  — (0,5)

2)  $I(x)$

| $x_i$  | 2    | 7    | 5    | 11 | 56   | 26   |
|--------|------|------|------|----|------|------|
| $I(x)$ | 0,37 | 0,52 | 0,82 | 1  | 1,52 | 1,70 |

— (1)

3)  $H(x) = 2,106$  bits — (1)

4) — (1,5)

5) yes, It is — (0,5)

6)  $\eta = \frac{2,06}{2,1} = 0,98 \rightarrow 98\%$  — (0,5)

Exo2

$M = 11010101 \rightarrow V = ?$  — (2)

$H(15, 11) \Rightarrow V = 000110110100111$

