

## Answers to Exercise 6: Utilization of data links

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Data Communication

Department of Electrical and Information Technology, LTH

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1.
  - a)  $a=2.1 \cdot 10^{-3}$ ,  $U=0.9979$
  - b)  $a=8.3 \cdot 10^{-3}$ ,  $U=0.9917$
  - c)  $a=2.4 \cdot 10^{-4}$ ,  $U=0.9998$
  - d)  $a=0.4$ ,  $U=0.7143$
  - a) *d)*
2. 781 (No)
3. 2 min 24,5 s
4.  $1+2a$
5. 2 Mbps
6. 100 kbps
7. 60 l
8. sec -> frame(s)
  - 1 -> 1, 2
  - 2 -> 3, 4
  - 3 -> 5, 6
  - 4 -> 7, 8, 9, 10, 11
  - 5 -> 12