## 1 Instruction 3: Selection of exercises from Chapters 2, 3 and 4 of Kulkarni and Handout, Section 2

Theory: paragraph 2.7

## Computational Problem:

2.45 a) Let $t_{i}(i=0,1, \ldots, 7)$ be the expected number of time slots before the buffer becomes empty, starting with $i(i=0,1, \ldots, 7)$ packets in the buffer at the beginning of the first time slot. Give the set of equations from which $t_{i}(i=0,1, \ldots, 7)$ can be calculated.
b) Make the task as given in the text of this exercise in the book.

Theory: Handout, section 2
Exercises: 1,2
Theory: paragraphs 3.1, 3.2, 3.3

## Computational Problems:

3.4 See the text in the book.
3.9 See the text in the book.
3.10 See the text in the book.

Theory: paragraphs 4.1, 4.2, 4.3

## Conceptual Problems:

4.1 See the text in the book.
4.2 See the text in the book.
4.4 See the text in the book.
4.5 See the text in the book.
4.8 See the text in the book.
4.9 See the text in the book.

