



COLLEGE OF ENGINEERING & TECHNOLOGY

Department: Computer Engineering

Lecturers: Dr. Mohamed El-Habrouk

Course: Computer Organization

Course No.: CC312

Semester: Fall 2005/2006

SHEET # 2

Class work problems of chapter 4:

4.3,
4.18(a),
4.21,
4.23(a, b)

Problem #:

- 1) Draw a diagram of a bus system for 4 registers of 4 bits each, but use multiplexers.
- 2) A digital computer has a common bus system for 4 registers of 16 bits each. The bus is constructed with multiplexers.
 - a) How many selection inputs are there in each multiplexer?
 - b) What size of multiplexers are needed?
 - c) How many multiplexers are there in the bus?

Assignment problems of chapter 4:

4.1,
4.5,
4.6,
4.7,
4.8,
4.9,
4.17,
4.18(b),
4.19,
4.23(c)