

# TKT20016 - Review questions 2

## 1. Threads

① Advantages of multithreading over multiple processes:

- x lower overhead for creation and context switching.
- x ease of data sharing within same address space.

② Advantages of kernel-level threads over user-level threads

- x true concurrency on multiprocessor system.
- x better integration with OS.

③ Blocking system call: ult vs. klt

x ult: blocking call in one thread blocks entire process.

x klt: only calling thread is blocked; others can continue.

x which is better? klt is generally better in this scenario  
as it avoid blocking entire process.

## 2. Scheduling criteria

common short-term scheduling criteria include:

x CPU utilization

x throughput

x turnaround time