(1) (Multiple choice) In the system that uses the clock algorithm, the clock hand will move
  (a) when there is a page fault.
  (b) when the page is accessed.
  (c) both of (a) and (b).
  (d) neither of (a) and (b).

(2) Assume you have a page reference string for a process with M page frames (initially all empty). The page reference string has length P; N distinct page numbers occur in it. Answer the following questions using FIFO:
  (a) What is the lower bound on the number of page faults?
  (b) What is an upper bound on the number of page faults?

(3) The system uses LRU for page replacement for the following reference string, for 3 page frames in physical memory:

   1, 2, 3, 4, 5, 3, 4, 1, 6

  (a) How many page faults occur?
  (b) What is the minimum number of page faults for an optimal replacement algorithm?

(4) If a page is shared between two processes, is it possible that the page is read-only for one process and read-write for the other? Why or why not?