

KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY
COLLEGE OF ENGINEERING
Department of Computer Engineering
BSc (Engineering) End of Semester Examination, 2010/2011

COE 354 OPERATING SYSTEMS

APRIL/MAY 2011

THREE HOURS

Index No:

SECTION A: Answer ALL questions. Circle one letter corresponding to your choice (circle two in #13).

1. A static partitioned memory management system has a total of six partitions. If one is allocated to the operating system, this will allow a total of

- a. five user jobs
- b. six user jobs
- c. thirty-two user jobs
- d. thirty-six user jobs
- e. sixty-four user jobs

2. Given memory partitions of 100K, 500K, 200K, 300K and 600K (in order) and processes of 212K, 417K, 112K, and 426K (in order), using the first-fit algorithm in which partition would the process requiring 426K be placed?

- a. 100K
- b. 500K
- c. 200K
- d. 300K
- e. 600K

3. A page fault means that we referenced a page

- a. outside the memory boundaries
- b. with an incorrect I/O request
- c. that was not in secondary storage
- d. that was not in main memory

4. Which of the following information bits used by the various page replacement policies indicates if the page has been called lately?

- a. Locality bit
- b. Status bit
- c. Referenced bit
- d. Modified bit

5. The simplest way to break a deadlock is to

- a. preempt a resource
- b. rollback
- c. kill one of the processes
- d. lock one of the processes