C 6998

Name.....

Reg. No. . . . . .

SECOND SEMESTER M.Sc. (COMPUTER SCIENCE) DEGREE EXAMINATION, AUGUST 2005

C.S. 201—OPERATING SYSTEM

Time : Three Hours Maximum : 60 Marks

Answer any **five** *questions from Part A and any* **three** *from Part* ***B.***

Part A

1. What is a dead-lock ? Give a solution.
2. What is processor multiplexing ?
3. Explain with suitable example the procedure graph of a nested concurrent statements
4. What is segmented-paged memory allocation ?
5. What is the stalemate situation in respect of two processes ?
6. What is the shared access method of device management ?
7. Explain how independence of logical record size and physical block size could be achieved.

(5 x 3 = 15 marks)

Part B

8. What is a semaphore ? How is it used to solve the Reader's and writer's problem ?
9. Describe partitioned memory allocation scheme.
10. How to prevent and avoid dead-locks ? Discuss in detail.
11. Describe in detail segmentation in case of file management.

(3 x 15 = 45 marks)