4. a) What is segmentation? Explain in detail

OR

- b) What is Demand paging? Explain how it is implemented
- 5. a) Explain different security models

OR

- b) Write about protection in computer systems
- 6. a) Explain the file system in UNIX

OR

b) What is a multiprocessor operating system? What are its functions?

[28/II Y/211]

[Aug-11]

[SPDCA-201] MCA DEGREE EXAMINATION

II YEAR

OPERATING SYSTEMS

(Effective from the admitted batch 2009-10)

Time: 3 Hours Max.Marks: 70

Instructions: All parts of the unit must be answered in one place only.

Figures in the right hand margin indicate marks allotted.

SECTION-A

1. Answer any four of the following

(4x5=20)

- a) What is an operating system?
- b) What is multiprogramming?
- c) What are semaphores?
- d) What is meant by virtual memory?
- e) What is a deadlock?
- f) What is thrashing?
- g) What is multitasking?

SECTION-B

Answer all questions:

(5x10=50)

2. a) What are system calls? Explain in detail

OR

- b) Explain the different CPU scheduling algorithms
- 3. a) Explain the Dining philosophers problem and its solution

OR

b) Explain deadlock detection. Explain how deadlocks can be prevented