

M.C.A. DEGREE EXAMINATIONS: NOVEMBER 2009

Second Semester

P07CA205: OPERATING SYSTEMS

Time: Three Hours

Maximum Marks: 100

Answer ALL the Questions:-

PART A (10 x 2 = 20 Marks)

1. What is process?
2. What is system calls?
3. Define program counter?
4. Difference between long-term scheduler and short-term scheduler?
5. Define semaphore?
6. What is resource allocation graph?
7. Define contiguous storage allocation?
8. What is random page replacement method?
9. What is the need of truncating a file?
10. What is rotational latency?

PRAT B (5 x 16 = 80 Marks)

11. a) Explain briefly about system calls in operating system?

(OR)

- b) i) Explain clustered systems. (8)
ii) Explain Operating system services. (8)

12. a) Explain inter process communication with example

(OR)

- b) i) Discuss process control block. (8)
ii) Explain Round-Robin algorithm. (8)

13. a) Explain detail in deadlock prevention.

(OR)

- b) i) Explain critical section problem. (8)
ii) Discuss Banker's algorithm. (8)

14. a) Explain in detail about page replacement method.

(OR)

b) i) Explain in detail about Block mapping. (8)

ii) Describe multilevel storage organization. (8)

15. a) Explain disk scheduling.

(OR)

b) Explain about access methods.

Time: T

1. Defi

2. State

3. Defi

4. Wha

5. Defi

6. Defi

7. Wha

8. Defi

9. Defi

10. State

11. a) W

b) Ex

12. a) W

b) W