

M.C.A. DEGREE EXAMINATIONS DECEMBER, 2020
SECOND SEMESTER
PAPER IV – OPERATING SYSTEMS

Time: 3 Hours

Max. Marks: 75

(No. additional sheet will be supplied)

PART – A (5 X 3 = 15 Marks)

Answer any Five Questions

Each question carries 3 marks

Each answer should not exceed 1 page.

1. Write a short note on system components?
2. Explain about threads?
3. Explain about critical region?
4. What is reader's/writers problems?
5. Explain swapping?
6. What is allocation as frames?
7. What is I/O buffering?
8. Explain about directory management?

PART – A (4 X 15 = 60 Marks)

Answer any all Questions

Each question carries 15 marks

Each answer should not exceed 6 pages.

9. Discuss about a) Evaluation of operating system.
b) Operating system services
(OR)
10. Explain process concepts and scheduling?
11. Explain about a) Critical section problem.
b) Monitors
(OR)
12. Discuss about a) Deadlock prevention
b) Deadlock detection and recovery from the deadlock.
13. Explain configures allocation and segmentation with paging?
(OR)
14. Explain about page replacement algorithm in detail?
15. What is disk scheduling and disk cache?
(OR)
16. Explain about directory implementation and efficiency and performance?

