

15095

M.Sc. DEGREE EXAMINATION, NOVEMBER 2016.

FIRST SEMESTER

Computer Science

Paper V — OPERATING SYSTEM

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each questions carries 3 marks.

Each answer should not exceed 1 page.

1. What is a process?
2. What are the functions of operating system?
3. What is a semaphore?
4. What is message passing?
5. What is a deadlock?
6. What is paging?
7. What is segmentation?
8. What is RAID?

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each answer carries 15 marks.

Each answer should not exceed 6 page.

9. What is cache memory? Explain the evolution of operating system?

Or

10. Distinguish between the process and the thread with its life cycle.
11. Explain briefly about Dining philosopher's problem with neat representation.

Or

12. Explain briefly about deadlock prevention methods.

13. Explain briefly about different scheduling algorithms.

Or

14. Describe briefly about memory management in windows and UNIX.

15. Explain briefly about disk scheduling policies and RAID.

Or

16. Discuss briefly file management and file sharing.

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