M.Sc. DEGREE EXAMINATION, OCTOBER/NOVEMBER 2015.

FIRST SEMESTER

Computer Science

Paper V — OPERATING SYSTEMS

Time: Three hours

Maximum: 75 marks

(No additional sheet will be supplied)

PART Λ — $(5 \times 3 = 15 \text{ marks})$

Answer any FIVE questions.

Each question carries 3 marks



- 1. What is throughput?
- ·2. What is a deadlock?
- 3. What is garbage collection?
- 4. What is record blocking?
- 5. What is Virtual memory?
- 6. What is synchronization?
- 7. What is buffering? Use?
- 8. What is a logical address?

PART B — $(4 \times 15 = 60 \text{ marks})$

Answer ALL questions.

Each question carries 15 marks

Each answer should not exceed 6 pages.

- 9. (a) Differentiate thread switching and process switching.
 - (b) Explain the process management in UNIX.

Or

10. Discuss the evolution of Operating systems.

11. Explain classical problems of synchronization.

Or

- 12. Discuss the dinning philosopher's problem using monitors.
- 13. Explain the memory management in Linux.

Or

- 14. Discuss the CPU scheduling algorithms.
- 15. Explain the disk scheduling algorithms.

Or

16. Explain the file organization. WW. KVISSGIOUP.COM

