

15095

M.Sc. DEGREE EXAMINATION, OCTOBER/NOVEMBER 2018.

FIRST SEMESTER

Paper V — OPERATING SYSTEMS

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 are interrupts?
2. What is micro kernel?
3. What are semaphores?
4. Differentiate between deadlock prevention and avoidance.
5. What is the requirement for memory management?
6. What is memory partitioning?
7. Difference between UNIX and window I/O.
8. What is record blocking?

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each questions carries 15 marks.

Answer ONE question from each unit.

Each answer should not exceed 6 pages

UNIT I

9. What are the objectives, functions and I/O communication technologies of OS?

Or

10. Give an overview of windows 2000 and UNIX systems.

UNIT II

11. What is deadlock? Discuss about deadlock prevention and avoidance.

Or

12. What is dinning philosopher's problem? Explain.

UNIT III

13. What is scheduling? Discuss about the types of scheduling algorithms.

Or

14. Give a note on the following

- (a) Paging.
- (b) Segmentation.
- (c) Virtual Memory.

UNIT IV

15. Explain about UNIX and windows file management.

Or

16. Write on the following

- (a) Disk Scheduling.
- (b) I/O Devices.

