

MAY 2017

ID 6605/GSC

Time : Three hours

Maximum : 75 marks

PART A — (5 × 6 = 30 marks)

Answer any FIVE questions.

1. Explain the various operating system services.
2. Explain semaphores and write a short note on it.
3. Write the difference between paging and segmentation.
4. Briefly explain any five criteria for process scheduling.
5. What are threats? How are threats monitored?
6. Explain FIFO page and LRU page replacements.
7. Discuss on various operations of a file.
8. What is page fault? When do page faults occur?

PART B — (3 × 15 = 45 marks)

Answer any THREE questions.

9. Describe the essential properties of the following operating systems :
 - (a) Batch
 - (b) Time-sharing
 - (c) Distributed.
10. Describe the interprocess communication.
11. Discuss the Banker's algorithm for deadlock avoidance in detail.
12. Explain various file access methods.
13. Explain the segmentation technique with the necessary diagrams.
