

C 2502 A

B.C.A. (Three Year) DEGREE EXAMINATION, MARCH/APRIL , 2017.

End Semester Examination

Second Semester

Part– II

OPERATING SYSTEMS

Time : 3 Hours

Max. Marks : 70

PART — A

Answer any FIVE of the following questions. **(5 × 4 = 20 Marks)**

1. What are the operating system services?
2. What is Semaphore? Explain with example.
3. Explain Swapping.
4. Explain File sharing.
5. Explain Deadlock characterisation.
6. Explain about threads.
7. Explain demand paging.
8. Explain disk scheduling.

PART — B

Answer ALL the following questions **(5 × 10 = 50 Marks)**

9. (a) Define operating system? Explain OS structure.
Or
(b) Explain the types of operating systems.
10. (a) Explain about scheduling queues and preemptive scheduling.
Or
(b) Explain about process coordination in detail.
11. (a) Explain virtual memory in detail.
Or
(b) Explain page replacement algorithms.

Turn Over

12. (a) Explain about mass storage structure.

Or

(b) Explain the concept of a file and access methods.

13. (a) What are the methods for Handling Deadlocks and Deadlock prevention.

Or

(b) Explain deadlock detection and recovery.
