



AM-1004

Seat No. 809

B. C. A. (Sem. IV) Examination

March - 2019

BCA - 404 : Operating System

(Elective - 2)

Time : 3 Hours]

[Total Marks : 70

- 1 (A) Attempt the following : 6
- (1) What is Multithreading ?
 - (2) Define : Operating System.
 - (3) What is Batch Processing ?
 - (4) What is Kernel ?
 - (5) What is System Cell ?
 - (6) What is Spooling ?
- (B) Attempt the following. (Any **Two**) 12
- (1) Discuss the Client Server Model.
 - (2) What is Monolithic System ? Explain Layered System of Operating System.
 - (3) Explain any three type of Operating System.
- 2 (A) Attempt the following : 5
- (1) What is PROCESS ?
 - (2) What is Context Switch ?
 - (3) Define CPU Brust.
 - (4) Define Race Condition.
 - (5) What is Starvation ?

- (B) Attempt the following (Any **Two**) 12
- (1) What is Scheduler ? Explain types of Schedulers in detail.
 - (2) Explain Round Robin Algorithm with example.
 - (3) Explain PCB in detail.
- 3 (A) Attempt the following : 6
- (1) What is Thread ?
 - (2) What is Reflection ?
 - (3) Give the types of Semaphore.
 - (4) Define : Critical Section.
 - (5) What is Multi Tasking ?
 - (6) Define : Deadlock Prevention.
- (B) Attempt the following. (Any **Two**) 12
- (1) What is Semaphore ? Explain types of Semaphore.
 - (2) Explain Deadlock Detection in detail.
 - (3) Explain Thread Synchronization in detail.
- 4 (A) Attempt the following : 5
- (1) What is ATU ?
 - (2) Define : Page Fault.
 - (3) What is Swapping ?
 - (4) What is MMU ?
 - (5) What is Memory Management ?
- (B) Attempt the following. (Any **Two**) 12
- (1) Give difference between Segmentation and Fragmentation.
 - (2) What is Paging ? Explain Paging in detail.
 - (3) Explain Memory Management Scheme in detail.