



AT-2604

Seat No 752

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

March / April - 2018

Operating System : Paper - BCA - 404

Time : 3 Hours]

[Total Marks : 70

- 1** (a) Do as directed : **6**
- (1) Give use of operating system.
 - (2) Give different between GUI and CUI.
 - (3) Define Kernel and Buffering.
- (b) Answer the following (any two) **12**
- (1) What is operating system ? Explain the functions of operating system.
 - (2) Explain any three types of operating system.
 - (3) Discuss the client server model.
- 2** (a) Do as directed : **5**
- (1) What is process ?
 - (2) What is context switch ?
 - (3) What is ready queue ?
 - (4) What is response time ?
 - (5) Define race condition.
- (b) Answer the following : (any two) **12**
- (1) Explain PCB in detail.
 - (2) Explain FCFS scheduling algorithm with example.
 - (3) Explain Round Robin algorithm with proper example.

- 3 (a) Do as directed : 6
- (1) What is semaphore ?
 - (2) What is thread ?
 - (3) Define Critical section.
 - (4) Define Deadlock
 - (5) What is Multi threading ?
 - (6) What is the use of resource allocation graph ?
- (b) Answer the following : (any two) 12
- (1) Explain semaphore with its types
 - (2) Explain deadlock avoidance and deadlock detection method
 - (3) Explain thread process in detail.
- 4 (a) Do as directed : 5
- (1) What is MMU ?
 - (2) What is memory management ?
 - (3) What is ATU ?
 - (4) Define page fault.
 - (5) What is thrashing ?
- (b) Answer the following : (any two) 12
- (1) What is paging ? Explain paging in detail.
 - (2) Give difference between segmentation and fragmentation.
 - (3) Write a short note on TLB.
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