



BB-1884

Third Year B. C. A. (Sem. V) Examination

October / November – 2010

504 - Operating Systems - II

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशांशिक विधानों के विवरणों पर अवश्य लिखें।
Fillup strictly the details of signs on your answer book.

Name of the Examination :
T.Y. B.C.A. (SEM. 5)

Name of the Subject :
504 - OPERATING SYSTEMS - 2

Subject Code No. : 1 8 8 4 Section No. (1, 2, ...) : NIL

Seat No. : [] [] [] [] [] [] [] [] [] []

Student's Signature

- (2) All questions are compulsory.
(3) Figures to the right indicate full marks.
(4) Draw figure and diagram wherever necessary.

Q-1: Answer in Short.

14

1. What is the significance of associative memory when OS is dealing with segmentation with demand paging?
2. What purpose does the modified bit serve in demand paging system?
3. Define preemptive & non-preemptive scheduling.
4. What information needs to be saved when context switching takes place?
5. Why we required blocking? List three disadvantage of it.
6. Define principle of Locality.
7. Difference between Job Scheduler & Process Scheduler.

Q-2: Do as Directed.

18

1. Given reference string is (Consider three Pg Frames)

06

1, 2, 3, 4, 1, 2, 5, 1, 2, 3, 4, 5.

Then discuss FIFO algorithm.

Also check is there Belady's Anomaly or not. (Consider Four Page Frames)

2. If FIFO algorithm mistakenly replaces the page that is still in active use, then which technique is used to overcome this problem? Explain it.

06

3. Discuss Round Robin policy with its merits & demerits. What is the impact of the quantum of time slice on the system performance?

06

OR

BB-1884]

1

[Contd...