



C-1904-R

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

October / November – 2008

Operating System : Paper - II

14 Time : Hours]

[Total Marks : 70

Instruction :

(1)

नीचे दशांशक निशानोंवाली विगतो उत्तरपत्री पर अवश्य लपकी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
THIRD YEAR B. C. A. (SEM. 5)

Name of the Subject :
OPERATING SYSTEM : PAPER - 2

Subject Code No. : 1 9 0 4 Section No. (1, 2,.....) : Nil

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

Student's Signature

1 Answer the following : (any seven) 14

- (1) What is scheduling ?
- (2) What do you mean by fragmentation.
- (3) Explain CPU-burst time.
- (4) What is spooling ?
- (5) What is PCB ?
- (6) What do you mean by co-operating processes ?
- (7) What is a difference between preemptive and non-preemptive scheduling ?
- (8) What are the steps taken by the O.S. to manage context switching ?
- (9) What do you mean by starvation ?

2 Answer the following : 14

- (1) Discuss round Robin algorithm with its merits and demerits. 6

OR

- (1) Explain optimal page replacement algorithm giving example. 6
- (2) List out different necessary conditions to occur deadlock. How can you prevent it ? 8

- 3 Answer the following : (any two) 14
- (1) Explain demand paging in detail.
 - (2) Discuss priority scheduling.
 - (3) Explain semaphore in detail.
- 4 Write short note on the following : (any two) 14
- (1) Resource allocation graph
 - (2) Hierarchy model of the file system
 - (3) Explain FCFS disk scheduling algorithm with example.
- 5 Attempt any two : 14
- (1) Discuss differences between paging and segmentation.
 - (2) Discuss page replacement algorithm.
 - (3) What is page fault ? Discuss the steps to handle it.