Download all Notes and papers from StudentSwwindharsobjects.com

Roll No:	************	
Total No.	of Questi	ons: 09

[Total No. of Pages:02

Paper ID [CS202]

(Please fill this Paper ID in OMR Sheet)

B.Tech. (Sem. - 4th)

OPERATING SYSTEM (CS - 202)

Time: 03 Hours

Maximum Marks: 60

Instruction to Candidates:

- 1) Section A is Compulsory.
- 2) Attempt any Four questions from Section B.
- 3) Attempt any Two questions from Section C.

Section - A

Q1)

 $(10\times 2=20)$

- a) What is buffering?
- b) What is logical address space?
- c) What is a thrashing?
- d) What is meant by critical section?
- e) What for are Resource Allocating Graphs used
- f) What is real time processing?
- g) What are semaphores?
- h) What is spooling?
- i) What is garbage collection?
- j) What are program threats?

R-141 [2058]

P.T.O.

Download all Notes and papers from StudentSuvidha.com

Section - B

 $(4 \times 5 = 20)$

- Q2) Explain virtual memory and associative memory.
- Q3) Discuss in detail the Data Encryption Standard (DES) algorithm. What are its limitations?
- Q4) Write short notes on the following:
 - (a) Two-phase locking.
 - (b) Wait-die and Wound-wait.
- Q5) What do you mean by page-faults? When do page-faults occur? Describe the action taken by the O.S when page fault occurs?
- **Q6)** Explain the difference between internal fragmentation and external fragmentation. Which one occurs in paging system?

 $(2\times 10=20)$

- Q7) (a) How can you prevent circular waiting situation in a deadlock?
 - (b) Which is the main limitation of resource allocation graph?
- **Q8)** Compare and contrast Public-key cryptography technique with Conventional cryptography technique.
- Q9) What do you mean by file management? Explain the various access and allocation methods of files in detail.



R-141

2