

Please check whether you have got the right question paper.

- N.B:
1. Question.No.1 is compulsory.
 2. Attempt any four from Q2 to Q7.
 3. Figures to the right indicate full marks.

1. a. Explain the issues in design of a Distributed OS? (10)
b. Write short notes on i) DCE ii) Buffering (10)
2. a. Describe the blocking and non-blocking types of IPC along with its pros and cons. Which is easier to implement and why? (10)
b. Explain the various consistency models of DSM in brief. (10)
3. a. Explain the synchronization algorithms in brief. (10)
b. Discuss the issues in designing Load-balancing algorithm. (10)
4. a. Give suitable examples for each of the following, a process using multiple threads:- (10)
I) In dispatcher worker model
II) In a pipelined process model
III) In a team model
b. Explain how RPC model works with suitable diagram. (10)
5. a. What is an idempotent operation? Which of the following operations are idempotent? (10)
Justify.
a. `Cin>>data;`
b. `ifstream infile("input text");infile.seek();`
c. `cout<< data;`
d. `int a=1,b=2,c; c= a + b;`
b. What are the different address space transfer mechanisms used in process transfer? (10)
6. a. Explain the various file accessing models and the file sharing semantics in brief. (10)
b. Write a short note on i) Thrashing ii) Human oriented names (10)
7. Write short notes on **any four** from the following: (20)
a. Process addressing
b. Client-Server binding
c. Election algorithm
d. NFS vs. AFS
e. Munin

----- xxx All the Best xxx -----