

Duration: 3 Hrs.

Total Marks:80

NB: (1) Question no.1 is compulsory.

(2) Attempt any three out of remaining five questions.

(3) Assume data if required.

- Q1. a.) Explain Co-scheduling for multiprocessor OS. [5]
b.) Enlist the fields of Super block. [5]
c.) What is meant by static and dynamic part of process context? [5]
d.) Give advantages and disadvantages of clock driven scheduling for RTOS. [5]
- Q2 a.) Explain different design approaches of operating System [10]
b.) Discuss techniques used to overcome scalability related issues in Distributed OS. [10]
- Q3 a.) Describe the structure of buffer pool. [10]
b.) Explain different Distributed computing models in detail [10]
- Q4 a.) Discuss various issues of cloud OS. [10]
b.) What is page table? How to map virtual address to physical address in UNIX OS? [10]
- Q5 Write short notes on : [20]
a.) Conversion of path name to an i-node in UNIX system.
b.) Virtual OS.
- Q6 a.) Bring out the design issues of multiprocessor OS [10]
b.) Explain Unix file system in detail. [10]
