T.E. Sem 6. (Rev.) Operating systems with unix. 18/12/08
Comp.

VT Oct. 08-272

Con. 5694–08. **(REVISED COURSE)** **RC–6926**

(3 Hours) **[Total Marks : 100**

N.B. : (1) Question No. **1** is **compulsory**.
(2) Attempt any **four** questions from remaining questions.
(3) Illustrate answer with **sketches** wherever **required**.

1. (a) Draw the block diagram of the system kernel of unix operating system and explain its working. **10**
   (b) What are the different classes of failure in RPC ? How are they handled ? **10**

2. (a) What is mutual exclusion ? Explain Dekker's algorithm for mutual exclusion. **10**
   (b) Explain paging in details. Describe how logical address convert into physical address. **10**

3. (a) List and explain in brief various memory management techniques. **10**
   (b) Explain file allocation methods in details. **10**

4. (a) Draw and explain the state transition diagram for the process. **10**
   (b) What is NTFS ? How windows 2000 uses NTFS ? **10**

5. (a) Explain multiprocessor scheduling. **10**
   (b) Explain in brief what do you understand by distributed systems. State its disadvantages. **10**

6. (a) What is deadlock ? Explain various deadlock prevention technique. **10**
   (b) Explain various IO buffering techniques. **10**

7. Write a short notes on :– **20**
   (a) Semaphore
   (b) Virtual memory
   (c) RAID
   (d) Disc Scheduling.

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