

Seat Number: _____

Marks:- 75

Duration: 2:30 hrs

734021123

Note:- 1) All questions are compulsory.

2) Figures to the right indicate maximum marks.

- Q1. Attempt any 3 (15)
1. Explain with diagram architecture of Linux Kernel. CO1(U)
 2. Explain Android Software architecture with diagram. CO1(U)
 3. Explain the concept of Process. CO1(U)
 4. Explain Unix Process Management. CO1(U)
 5. Explain 5 State Process Model. CO1(U)
 6. Draw and Explain Window architecture. CO1(U)
- Q2. Attempt any 3 (15)
1. Explain thread Management of Window Operating System. CO3(U)
 2. Explain thread management of Solaris Operating System. CO3(U)
 3. Explain threads Linux. CO3(U)
 4. What is mutual exclusion? CO3(R)
 5. Explain thread in Android OS. CO3(U)
 6. Explain race condition. CO3(U)
- Q3. Attempt any 3 (15)
1. Explain deadlock Prevention. CO4(U)
 2. What is deadlock? Explain deadlock recovery in details. CO4(R)
 3. Explain Resource allocation graph. CO4(U)
 4. What is Safe State and unsafe state of the system? CO4(R)
 5. Explain Bankers Algorithm for Deadlock avoidance. CO4(U)
 6. What is paging? CO4(R)
- Q4. Attempt any 3 (15)
1. Explain different types of scheduling algorithm. CO5(U)
 2. With the help of example, explain round robin algorithm. CO5(U)
 3. Differentiate between long-term short term scheduler. CO5(R)
 4. What is difference between Preemptive & non-preemptive scheduling? CO5(R)
 5. Explain Shortest Job first scheduling algorithm. CO5(U)
 6. Explain FIFO scheduling algorithm with example. CO5(U)
- Q5. Attempt any 3 (15)
1. Explain different file access methods. CO5(U)
 2. Explain different types of file organization. CO5(U)
 3. Explain Contiguous Allocation. CO5(U)
 4. Explain Linked List allocation. CO5(U)
 5. Explain Indexed allocation. CO5(U)
 6. Explain direct memory Access. CO5(U)

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