16/3/24 ATKT

SYIT|Sem III|ATKT| Operating Systems (13)

Seat Number:_____

Duration: 2:30 hrs **734021123** **Marks:- 75**

Note:- 1) All questions are compulsory.
2) Figures to the right indicate maximum marks.

Q1. Attempt any 3 (15)

1.	Draw and Explain windows architecture.	CO5(U)
2.	Draw android architecture & write all the component.	CO5(U)
3.	Explain 5 state process model.	CO1(U)
4.	Draw diagram for Linux kernel architecture.	CO6(U)
5.	What is Process?	CO1(R)
6.	Explain windows process management.	CO6(U)

Q2. Attempt any 3

1.	Explain UNIX thread management.	CO3(U)
2.	Explain Principle of Concurrency.	CO3(U)
3.	Explain thread management of android OS.	CO3(U)
4.	Explain windows thread management.	CO3(U)
5.	Explain thread management in Android.	CO3(U)
6.	Explain Linux thread.	CO3(U)

Q3. Attempt any 3 (15)

1.	Explain memory allocation strategies.	CO4(U)
2.	Given memory partition of 100k, 500k, 200k, 300k & 600k in order. How could each of the first -fit, Best fit & worst fit algorithms. Place The processes of 212k, 417k, 112k & 426k in order? Which algorithm makes the most efficient use of memory?	CO4(E)
3.	Write short note on paging.	CO4(R)
4.	Explain Swapping.	CO4(U)
5.	Explain memory management requirements.	CO4(U)
6.	Explain memory partitioning.	CO4(U)

Q4. Attempt any 3 (15)

1.	Write short note on Long term scheduler.	CO5(R)
2.	Write comparison between short term & medium term Scheduler.	CO5(U)
3.	Explain first in first out algorithm.	CO5(U)
4.	Explain SJF algorithm.	CO5(U)
5.	Explain priority scheduling algorithm.	CO5(U)
6.	With the help of example, explain round robin algorithm.	CO5(U)

Q5. Attempt any 3 (15)

1.	Write a short note on DMA.	CO5(R)
2.	Explain Disk scheduling algorithm.	CO5(U)
3.	Explain FCFS algorithm.	CO5(U)
4.	Write short note on SCAN algorithm.	CO5(R)
5.	Write short note on single level directory.	CO5(R)
6.	Explain two level directory systems.	CO5(U)

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