**UNIT-1**

1. Define the term Operating system. List and discuss the typical Functions of operating systems.
2. Explain the computer orgnization with neat sketch.
3. List out and discuss the major activities of an operating systemwith regard to memory management and process management.
4. Types of System calls
5. Abstract view of Operating system.
6. Dual Mode operation of an Operating system.
7. Operating system Services
8. Concepts of viratualization, virtual machines, their implementation and benefits in details.
9. List out and discuss the major activities of an operating systemwith regard to Disk management and File management.
10. In what ways is the modular kernel approach similar to the layered approaches.
11. Compare and Contrast MS-DOS layer structure and UNIX system structure with neat sketch.

UNIT-2

1. Define the the follwing

process ,program.context switching

1. Define process state.Explain process state transition diagram
2. Disscus about process control block with neat sketch.
3. Long term ,meidum term and short term schedulers advanatages ,scheduling queues
4. Communication models in Interproces communication(IPC)
5. Multi thread model
6. Explain different thread types(user & kernel)
7. Summarize multithreading models(one-to-one,one-to-many,many-to-many)
8. Discuss about scheduling criteria
9. **Disscuss different scheduling algorithms also practice problems on these algorithms**

**(**FCFS,SJF,Round Robin and Priority) both premptive and non premptive with arrival times,if scheduling criteria not mentioned then consider as pre-emptive and if time qunatum not yet mentioned for Round robin then conder default time quantuam as 3

1. Illustrate operations on process(create,execute and terminate)
2. Discuss producer-consumer problem

Unit -3 :**Completed concepts**

Instructions to the Students

* Refer the teaxt book (galvin),notes,and slides
* Neatly draw the all diagrams with scale and pencil
* Present the paper neatly(required headings and sub headings)
* Can not evaluate if you are wrting general definitons by search googe