**OS Question Bank**

1. Briefly explain basic elements of computer components. (06)
2. Discuss different types of operating system. (08)
3. What is the need for an interrupt? Explain with an instruction cycle diagram. (06)
4. Discuss memory hierarchy concept, explaining the characteristics which distinguishes various elements. (06)
5. What is layered approach? Explain with neat diagram and its advantages. (06)
6. Differentiate process and threads. (06)
7. Explain the five state process model with queuing diagram, showing how to change process model for a suspend process. (10)
8. Classify processor registers. Explain them briefly. (10)
9. Define process. With a neat diagram, explain different states of a process. (05)
10. Explain different levels of threads with advantages and disadvantages. (07)
11. Explain various steps in interrupt processing. (05)
12. Discuss different types of I/O communication techniques. (06)
13. Define OS. Explain various types of services provided by OS. (08)
14. With a neat diagram, explain UNIX O S. (06)
15. With a neat diagram, explain MS-DOS layer structure. (06)
16. Define system call. Explain different types of system calls. (06)
17. Explain execution of OS with a neat diagram. (08)
18. Discuss SMP architecture. (10)
19. Write a short note on: (05m each)
    1. System Program
    2. Cache Memory
    3. Multiprocesssor system
    4. Distributed System
    5. Microkernels
20. Discuss different concerns on security issues. (08)
21. Problems on scheduling algorithms