Operating System Question Paper

Q1. Explain the concept of process scheduling and its types. (5 Marks)

Q2. What are the differences between multitasking, multithreading, and multiprocessing? (5 Marks)

Q3. Describe the various states of a process. (5 Marks)

Q4. Explain deadlock and the methods to handle it. (5 Marks)

Q5. What is virtual memory and how is it implemented? (5 Marks)

Q6. Discuss the concept of paging and segmentation. (5 Marks)

Q7. Describe the file system structure in operating systems. (5 Marks)

Q8. Explain inter-process communication (IPC) mechanisms. (5 Marks)

Q9. What are system calls and how do they work? (5 Marks)

Q10. Compare preemptive and non-preemptive scheduling. (5 Marks)

Q11. Explain the role of the kernel in an operating system. (5 Marks)

Q12. What is the difference between internal and external fragmentation? (5 Marks)

Q13. Explain demand paging and its advantages. (5 Marks)

Q14. Describe the critical section problem and solutions. (5 Marks)

Q15. What are semaphores and how are they used? (5 Marks)

Q16. Explain thrashing and methods to prevent it. (5 Marks)