

Technical Extra Question Bank

Use this for rapid MCQ recall.

Flash MCQs

1. Stack principle?
Answer: LIFO
2. Queue principle?
Answer: FIFO
3. BFS uses?
Answer: Queue
4. DFS uses?
Answer: Stack/recursion
5. Binary search needs?
Answer: Sorted array
6. Binary search complexity?
Answer: $O(\log n)$
7. Merge sort complexity?
Answer: $O(n \log n)$
8. Quick sort worst case?
Answer: $O(n^2)$
9. Hashing average search?
Answer: $O(1)$
10. Process is?
Answer: Program in execution
11. Thread shares?
Answer: process memory/address space
12. Round Robin uses?
Answer: time quantum
13. SJF advantage?
Answer: minimum average waiting time if burst times known
14. Deadlock condition list?
Answer: mutual exclusion, hold and wait, no preemption, circular wait

15. Paging block size?
Answer: fixed
16. Segmentation block size?
Answer: variable/logical
17. Page fault means?
Answer: required page missing from RAM
18. TCP property?
Answer: reliable, connection-oriented
19. UDP property?
Answer: connectionless, faster, unreliable
20. DNS port?
Answer: 53
21. HTTP port?
Answer: 80
22. HTTPS port?
Answer: 443
23. SSH port?
Answer: 22
24. Switch uses?
Answer: MAC address
25. Router uses?
Answer: IP address
26. ARP maps?
Answer: IP to MAC
27. DHCP does?
Answer: assigns IP automatically
28. ADC converts?
Answer: analog to digital
29. DAC converts?
Answer: digital to analog
30. Microcontroller includes?
Answer: CPU + memory + I/O
31. UART is?
Answer: asynchronous serial communication

32. SPI lines?
Answer: MOSI, MISO, SCLK, SS
33. I2C lines?
Answer: SDA, SCL
34. Watchdog does?
Answer: resets hung system
35. RTOS key feature?
Answer: deterministic response
36. Waterfall is?
Answer: sequential
37. Agile is?
Answer: iterative and incremental
38. Scrum cycle is called?
Answer: sprint
39. Verification asks?
Answer: are we building the product right?
40. Validation asks?
Answer: are we building the right product?
41. Unit testing tests?
Answer: individual unit/module
42. Integration testing tests?
Answer: module interaction
43. System testing tests?
Answer: full system
44. UAT means?
Answer: user acceptance testing
45. Smoke testing means?
Answer: basic build verification
46. Regression testing means?
Answer: test old features after changes
47. Severity means?
Answer: impact
48. Priority means?
Answer: urgency

49. Selenium is for?

Answer: web UI automation

50. Postman is for?

Answer: API testing