



16. An one dimensional array array[1:5] contains \_\_\_\_\_ elements.

- a. 5
- b. 4
- c. 1
- d. 6

17. Which are the applications of array?

- a. Sparse matrix
- b. Ordered list
- c. Both a & b
- d. none

18. Arrays are best data structures

a. for relatively permanent collections of data

b. for the size of the structure and the data in the structure are constantly changing

c. for both of above situation

d. for none of above situation

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19. Each array declaration need not give, implicitly or explicitly, the information about

a. the name of array

b. the data type of array

c. the first data from the set to be stored

d. the index set of the array

20. Which of the following statements are wrong statements?

a. Array is primitive data structure.

b. Every element of array must be same.

c. In array, Insert element is called push operation.

d. All

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21. Which of the following sorting algorithms does not have a worst case running time of  $O(n^2)$

a. Insertion sort

b. Merge sort

c. Quick sort

d. Bubble sort

22. which is/are the height balancing tree

a. AVL tree

b. Splay tree

c. Red Black Tree

d. All of the above

23. the worst case time complexity of AVL tree is

a.  $O(n)$

b.  $O(\log n)$

c.  $O(n^2)$

d.  $O(n \log n)$

24. A binary search tree whose left subtree and right subtree differ in height by at most 1 unit is called .....

a. AVL tree

b. Red-black tree

c. Lemma tree

d. None of the above

25. The AVL must have balance factor between

a. -1 to 1

b. -2 to -2

c. -5 to -5

d.  $-\infty$  to  $+\infty$

26. .... refers to a situation in which a process is ready to execute but is continuously denied access to a processor in deference to other processes.

a. Synchronization

b. Mutual Exclusion

c. Dead lock

d. Starvation

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27. Which of the following is/ are the part of operating system?

a. Kernel services

b. Library services

c. Application level services

d. All of the above

28. With ..... a page is brought into main memory only when the reference is made to a location on that page.

a. demand paging

b. main paging

c. prepaging

d. postpaging

29. .... is the ability of multiple process to co-ordinate their activities by exchange of information

a. Synchronization

b. Mutual Exclusion

c. Dead lock

d. Starvation

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30. .... is the time required to position the Read/Write head to the required sector.

a. Seek time

b. Rotational delay

c. Latency time

d. Access time

31. .... policy selects the disk I/O request that requires the least movement of the disk arm from its current position.

a. FSCAN

b. SSTF

c. SCAN

d. C-SCAN

32. .... refers to the ability of an operating system to support multiple threads of execution with a single process.

- a. **Multithreading**
- b. Multiprocessing
- c. Multiexecuting
- d. Bi-threading

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33. .... Techniques can be used to resolve conflicts, such as competition for resources, and to synchronize processes so that they can cooperate.

- a. **Mutual Exclusion**
- b. Busy Waiting
- c. Deadlock
- d. Starvation

34. Disk scheduling includes deciding

- a. which should be accessed next
- b. **order in which disk access requests must be serviced**
- c. the physical location of the file
- d. the logical location of the file

35. Which scheduling policy is best suited for time-sharing operating systems

- a. Shortest job first
- b. **Round robin**
- c. First come first serve
- d. Elevator

36. Which among following scheduling algorithms give minimum average waiting time

- a. FCFS
- b. **SJF**
- c. Round robin
- d. On priority

37. Size of virtual memory depends on

- a. size of data bus
- b. **size of address bus**
- c. size of main memory
- d. none of above

38. Semaphores are used to solve the problem of

- a. race condition
- b. process synchronization
- c. **mutual exclusion**
- d. belady problem

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39. In which scheduling policies, context switching never takes place

- a. **FCFS**
- b. round robin
- c. Shortest job first
- d. Pre-emptive

40. Which is single user operating system

- a. **MS-DOS**
- b. UNIX
- c. XENIX
- d. LINUX

41. Multiprogramming systems

Are easier to develop than single

- a. programming systems
- b. Execute each job faster
- c. **Execute more jobs in the same time**
- d. Are used only on large main frame computers

42. A thread is

- a. **lightweight process where the context switching is low**
- b. lightweight process where the context switching is high
- c. used to speed up paging
- d. used in dead locks

43. 26. The LRU algorithm

- a. pages out pages that have been used recently
- b. pages out pages that have not been used recently
- c. **pages out pages that have been least used recently**
- d. pages out the first page in a given area

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44. Semaphores function is to

- a. **synchronize critical resources to prevent deadlock**
- b. synchronize processes for better CPU utilization
- c. used for memory management
- d. none of above

45. To avoid the race condition, the number of processes that may be simultaneously inside the critical section is

- a. 12
- b. 3
- c. **1**
- d. 0

46. Four necessary conditions for deadlock are non pre-emption, circular wait, hold and wait and

- a. **mutual exclusion**
- b. race condition
- c. buffer overflow
- d. None of above

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47. Banker's algorithm deals with

- a. deadlock prevention
- b. **deadlock avoidance**
- c. deadlock recovery
- d. mutual exclusion

48. Which of the following statements is false?

- a. Segmentation suffers from external fragmentation.
- b. Paging suffers from internal fragmentation.
- c. Segmented memory can be paged.
- d. Virtual memory is used only in multi-user systems.**

49. Consider a system having 'm' resources of the same type. These resources are shared by 3 processes A, B, C, which have peak time demands of 3, 4, 6 respectively. The minimum value of 'm' that ensures that deadlock will never occur is

- a. 11**
- b. 12
- c. 13
- D. 14

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50. At a particular time, the value of a counting semaphore is 10. It will become 7 after

- a. 3 V operations
- b. 3 P operations**
- c. 7 V operations
- d. 7 P operations

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