

Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021)

Course Name - --Advanced Operating System

Course Code - PCC-MCS203

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Answer all the questions. Each question carry one mark.

9. 1.By operating system, the resource management can be done via _____

Mark only one oval.

- time division multiplexing
- space division multiplexing
- time and space division multiplexing
- none of the mentioned

10. 2.Which facility dynamically adds probes to a running system, both in user processes and in the kernel?

Mark only one oval.

- DTrace
- DLocate
- DMap
- DAdd

11. 3.The Operating System is _____

Mark only one oval.

- Application Software
- System Software
- both a and b
- None of this

12. 4.Which one is the innermost component of Operating System?

Mark only one oval.

- Kernel
- Shell
- both a and b
- None of this

13. 5.What is the function of Kernel?

Mark only one oval.

- Makes Communication between Hardware and Software
- Makes Communication between Application and Software Software.
- Makes interface for Users
- None of this

14. 6.What is the function of FORK() in Kernel

Mark only one oval.

- To create child process
- To create processor
- to create deadlock
- to create TLB

15. 7.Multiprocessing system gives a

Mark only one oval.

- Small system
- ightly coupled system
- loosely coupled system
- Macro system

16. 8. Who was the inventor of Android Operating System?

Mark only one oval.

- Steve Jobs
- Bill Gates
- Andy Rich Nick
- Kernel Torvalds

17. 9. System structure of Linux is

Mark only one oval.

- Microsoft Windows
- UNIX
- Window Vista
- Monolithic Kernel

18. 10. Program execution services are used to

Mark only one oval.

- Control Program
- Delete Program
- Execute Program
- Update Programs

19. 11.Third Generation of OS in _____

Mark only one oval.

- 945-1965
- 965-1980
- 1980-1995
- 1995-Now

20. 12.The systems which allow only one process execution at a time, are called _____

Mark only one oval.

- uni programming systems
- uni processing systems
- uni tasking systems
- none of the mentioned

21. 13.Process control by _____

Mark only one oval.

- OS Kernel
- Shell
- Both and b
- none of the mentioned

22. 14.In Unix, Which system call creates the new process?

Mark only one oval.

- fork
- create
- new
- none of the mentioned

23. 15.Program is _____

Mark only one oval.

- Dynamic Concept
- istributed Concept
- Real Time Concept
- Static Concept

24. 16.A process stack does not contain _____

Mark only one oval.

- Function parameters
- Local variables
- Return addresses
- PID of child process

25. 17.Which system call returns the process identifier of a terminated child?

Mark only one oval.

- wait
- exit
- fork
- get

26. 18.Which of the following does not interrupt a running process?

Mark only one oval.

- A device
- Timer
- Scheduler process
- Power failure

27. 19.The context of a process in the PCB of a process does not contain _____

Mark only one oval.

- the value of the CPU registers
- the process state
- memory-management information
- context switch time

28. 20.What is a medium-term scheduler?

Mark only one oval.

- It selects which process has to be brought into the ready queue
- It selects which process has to be executed next and allocates CPU
- It selects which process to remove from memory by swapping
- None of the mentioned

29. 21.What is a short-term scheduler?

Mark only one oval.

- It selects which process has to be brought into the ready queue
- It selects which process has to be executed next and allocates CPU
- It selects which process to remove from memory by swapping
- None of the mentioned

30. 22.Which scheduling algorithm allocates the CPU first to the process that requests the CPU first?

Mark only one oval.

- first-come, first-served scheduling
- shortest job scheduling
- priority scheduling
- none of the mentioned

31. 23.Process are classified into different groups in _____

Mark only one oval.

- shortest job scheduling algorithm
- round robin scheduling algorithm
- priority scheduling algorithm
- multilevel queue scheduling algorithm

32. 24.Preemptive Shortest Job First scheduling is sometimes called _____

Mark only one oval.

- Fast SJF scheduling
- EDF scheduling "Earliest Deadline First"
- HRRN scheduling "Highest Response Ratio Next"
- SRTN scheduling "Shortest Remaining Time Next"

33. 25.An SJF algorithm is simply a priority algorithm where the priority is _____

Mark only one oval.

- the predicted next CPU burst
- the inverse of the predicted next CPU burst
- the current CPU burst
- anything the user wants

34. 26.A solution to the problem of indefinite blockage of low " priority processes is

Mark only one oval.

- Starvation
- Wait queue
- Ready queue
- Aging

35. 27.A process is selected from the _____ queue by the _____ scheduler, to be executed.

Mark only one oval.

- blocked, short term
- wait, long term
- ready, short term
- ready, long term

36. 28.Mutual exclusion can be provided by the _____

Mark only one oval.

- mutex locks
- binary semaphores
- both mutex locks and binary semaphores
- none of the mentioned

37. 29.Process synchronization can be done on _____

Mark only one oval.

- hardware level
- software level
- both hardware and software level
- none of the mentioned

38. 30.What are the two atomic operations permissible on semaphores?

Mark only one oval.

- wait
- stop
- hold
- none of the mentioned

39. 31.The wait operation of the semaphore basically works on the basic _____ system call.

Mark only one oval.

- stop()
- block()
- hold()
- wait()

40. 32.The code that changes the value of the semaphore is _____

Mark only one oval.

- remainder section code
- non-critical section code
- critical section code
- none of the mentioned

41. 33.Each process P_i , $i = 0,1,2,3,9$ is coded as follows. repeat $P(\text{mutex})$ {Critical Section} $V(\text{mutex})$ Forever The code for P_{10} is identical except that it uses $V(\text{mutex})$ instead of $P(\text{mutex})$. What is the largest number of processes that can be inside the critical section at any moment (the mutex being initialized to 1)?

Mark only one oval.

- 1
- 2
- 3
- None of the mentioned

42. 34.What is a semaphore?

Mark only one oval.

- is a binary mutex
- must be accessed from only one process
- can be accessed from multiple processes
- none of the mentioned

43. 35.What is a mutex?

Mark only one oval.

- is a binary mutex
- must be accessed from only one process
- can be accessed from multiple processes
- none of the mentioned

44. 36.A binary semaphore is a semaphore with integer values _____

Mark only one oval.

- 1
- 1
- 0.8
- 0.5

45. 37.Semaphores are mostly used to implement _____

Mark only one oval.

- System calls
- IPC mechanisms
- System protection
- None of the mentioned

46. 38. Spinlocks are intended to provide _____ only.

Mark only one oval.

- Mutual Exclusion
- Bounded Waiting
- Aging
- Progress

47. 39. Swap space exists in _____

Mark only one oval.

- primary memory
- secondary memory
- Central Processing Unit
- none of the mentioned

48. 40. When a program tries to access a page that is mapped in address space but not loaded in physical memory, then _____

Mark only one oval.

- segmentation fault occurs
- fatal error occurs
- page fault occurs
- no error occurs

49. 41. In FIFO page replacement algorithm, when a page must be replaced

Mark only one oval.

- oldest page is chosen
- newest page is chosen
- random page is chosen
- none of the mentioned

50. 42. Which of the following page replacement algorithms suffers from Belady's Anomaly?

Mark only one oval.

- Optimal replacement
- LRU
- FIFO
- Both optimal replacement and FIFO

51. 43. If no frames are free, _____ page transfer(s) is/are required.

Mark only one oval.

- one
- two
- three
- four

52. 44.A FIFO replacement algorithm associates with each page the _____

Mark only one oval.

- time it was brought into memory
- size of the page in memory
- page after and before it
- all of the mentioned

53. 45.What is the Optimal page “ replacement algorithm”?

Mark only one oval.

- Replace the page that has not been used for a long time
- Replace the page that has been used for a long time
- Replace the page that will not be used for a long time
- None of the mentioned

54. 46.Segment replacement algorithms are more complex than page replacement algorithms because _____

Mark only one oval.

- Segments are better than pages
- Pages are better than segments
- Segments have variable sizes
- Segments have fixed sizes

55. 47.What are the two methods of the LRU page replacement policy that can be implemented in hardware?

Mark only one oval.

- Counters
- RAM & Registers
- Stack & Counters
- Registers

56. 48.LRU page replacement algorithm associates with each page the _____

Mark only one oval.

- time it was brought into memory
- the time of that page's last use
- page after and before it
- all of the mentioned

57. 49.For 3 page frames, the following is the reference string: 7 0 1 2 0 3 0 4 2 3 0 3 2 1 2 0 1 7 0 1 How many page faults does the LRU page replacement algorithm produce?

Mark only one oval.

- 10
- 15
- 11
- 12

58. 50.Using a pager _____

Mark only one oval.

- increases the swap time
- decreases the swap time
- decreases the swap time & amount of physical memory needed
- increases the amount of physical memory needed

59. 51.A page fault occurs when?

Mark only one oval.

- a page gives inconsistent data
- a page cannot be accessed due to its absence from memory
- a page is invisible
- all of the mentioned

60. 52.When the page fault rate is low _____

Mark only one oval.

- the turnaround time increases
- the effective access time increases
- the effective access time decreases
- turnaround time & effective access time increases

61. 53. Physical memory is broken into fixed-sized blocks called _____

Mark only one oval.

- frames
- pages
- backing store
- none of the mentioned

62. 54. The _____ is used as an index into the page table.

Mark only one oval.

- frame bit
- page number
- page offset
- frame offset

63. 55. With paging there is no _____ fragmentation.

Mark only one oval.

- internal
- external
- either type of
- none of the mentioned

64. 56.The operating system maintains a _____ table that keeps track of how many frames have been allocated, how many are there, and how many are available.

Mark only one oval.

- page
- mapping
- frame
- memory

65. 57.Paging increases the _____ time.

Mark only one oval.

- waiting
- execution
- context switch
- all of the mentioned

66. 58.The page table registers should be built with _____

Mark only one oval.

- very low speed logic
- very high speed logic
- a large memory space
- none of the mentioned

67. 59. For every process there is a _____

Mark only one oval.

- page table
- copy of page table
- pointer to page table
- all of the mentioned

68. 60. The heads of the magnetic disk are attached to a _____ that moves all the heads as a unit.

Mark only one oval.

- spindle
- disk arm
- track
- none of the mentioned

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