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

Course Name - −Operating Systems
Course Code - MCA202

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○ M.SC.(ANCS)

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○ B.A.(Eng)

Answer all the questions. Each question carry one mark.

9.   1.In Unix, Which system call creates the new process?

Mark only one oval.

○ fork

○ create

○ new

○ none of the mentioned

10. 2.A system is in the safe state if

Mark only one oval.

( ) the system can allocate resources to each process in some order and still avoid a deadlock

( ) there exist a safe sequence

( ) all of the mentioned

( ) none of the mentioned

11. 3.The process to be aborted is chosen on the basis of the following factors :

Mark only one oval.

( ) priority of the process

( ) process is interactive or batch

( ) how long the process has computed

( ) all of the mentioned

12. 4.On systems where there are multiple operating system, the decision to load a particular one is done by _____

Mark only one oval.

( ) boot loader

( ) bootstrap

( ) process control block

( ) file control block

13.   5.Multipartite viruses attack on

Mark only one oval.

⬭ files

⬭ boot sector

⬭ memory

⬭ all of the mentioned

14.   6.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

15.   7.Semaphore is a/an _____ to solve the critical section problem.

Mark only one oval.

⬭ hardware for a system

⬭ special program for a system

⬭ integer variable

⬭ none

16. 8.What is inter process communication?

Mark only one oval.

○ communication within the process

○ communication between two process

○ communication between two threads of same process

○ none of the mentioned

17. 9)Memory management technique in which system stores and retrieves data from secondary storage for use in main memory is called
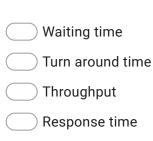
Mark only one oval.

○ fragmentation

○ paging

○ Mapping

○ none of the mentioned

18. 10.Which of the following is/are the technique(s) for performing I/O management function.

Mark only one oval.

○ Programmed I/O

○ Interrupt driven I/O

○ Direct Memory Access

○ All of the above

19.   11.In which of the following page replacement policies Belady's anomaly occurs?

Mark only one oval.

⬭ FIFO

⬭ LRU

⬭ OPTIMAL

⬭ NRU

20.   12.Interval between the time of submission and completion of the job is called

Mark only one oval.

⬭ Waiting time

⬭ Turn around time

⬭ Throughput

⬭ Response time

21.   13.All unsafe states are

Mark only one oval.

⬭ deadlocks

⬭ not deadlocks

⬭ fatal

⬭ none of the mentioned

22. 14.Logical memory is broken into blocks of the same size called _____

Mark only one oval.

( ) frames

( ) pages

( ) backing store

( ) none of the mentioned

23. 15.On media that use constant linear velocity (CLV), the _____ is uniform.

Mark only one oval.

( ) density of bits on the disk

( ) density of bits per sector

( ) the density of bits per track

( ) none of the mentioned

24. 16.Virtual memory is

Mark only one oval.

( ) simple to implement

( ) used in all major commercial operating systems

( ) less efficient in utilization of memory

( ) useful when fast I/O devices are not available

25.   17.Which language uses synchronization methods for synchronization

Mark only one oval.

⬭ C

⬭ C++

⬭ Ada

⬭ JAVA

26.   18.For a deadlock to arise, which of the following conditions must hold
simultaneously?

Mark only one oval.

⬭ Mutual exclusion

⬭ No preemption

⬭ Hold and wait

⬭ All of the mentioned

27.   19.With paging there is no _____ fragmentation.

Mark only one oval.

⬭ internal

⬭ external

⬭ either internal or external
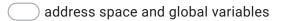
⬭ none of the mentioned

28. 20.When the head damages the magnetic surface, it is known as _____

    Mark only one oval.

    ◯ disk crash

    ◯ head crash

    ◯ magnetic damage

    ◯ all of the mentioned

29. 21.In operating system, each process has its own

    Mark only one oval.

    ◯ address space and global variables

    ◯ open files

    ◯ pending alarms, signals and signal handlers

    ◯ all of the mentioned

30. 22.The circular wait condition can be prevented by

    Mark only one oval.

    ◯ defining a linear ordering of resource types

    ◯ using thread

    ◯ using pipes

    ◯ all of the mentioned

31.   23.Which one of the following is a synchronization tool?

Mark only one oval.

⬭ thread

⬭ pipe

⬭ semaphore

⬭ socket

32.   24._____ and _____ are the most common strategies used to select a free hole from the set of available holes.

Mark only one oval.

⬭ First fit, Best fit

⬭ Worst fit, First fit

⬭ Best fit, Worst fit

⬭ None of the mentioned

33.   25.Example of mutually exclusive resource is

Mark only one oval.

⬭ RAM

⬭ Printer

⬭ Both RAM and Printer

⬭ None

34.　　26.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

35.　　27.In linked allocation _____

Mark only one oval.

◯ each file must occupy a set of contiguous blocks on the disk

◯ each file is a linked list of disk blocks

◯ all the pointers to scattered blocks are placed together in one location

◯ none of the mentioned

36.　　28._____ is an approach to restricting system access to authorized users.

Mark only one oval.

◯ Role-based access control

◯ Process-based access control

◯ Job-based access control

◯ None of the mentioned

37. 29.The wait operation of the semaphore basically works on the basic _____ system call.

Mark only one oval.

◯ stop()

◯ block()

◯ hold()

◯ wait()

38. 30.The address of the next instruction to be executed by the current process is provided by the

Mark only one oval.

◯ CPU registers

◯ Program counter

◯ Process stack

◯ Pipe

39. 31.Which one of the following is the address generated by CPU?

Mark only one oval.

◯ physical address

◯ absolute address

◯ logical address

◯ none of the mentioned

40. 32._____ is a technique of improving the priority of process waiting in Queue for CPU allocation
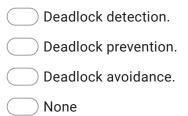
Mark only one oval.

⬭ Starvation

⬭ Ageing

⬭ Revocation

⬭ Relocation

41. 33.Which of the following approaches do not require knowledge of the system state?

Mark only one oval.

⬭ Deadlock detection.

⬭ Deadlock prevention.

⬭ Deadlock avoidance.

⬭ None

42. 34.The Banker's algorithm is _____ than the resource allocation graph algorithm.

Mark only one oval.

⬭ less efficient

⬭ more efficient

⬭ equal

⬭ none of the mentioned

43.   35.Operating System maintains the page table for

Mark only one oval.

◯ each process

◯ each thread

◯ each instruction

◯ each address

44.   36.In the _____ algorithm, the disk arm starts at one end of the disk and moves toward the other end, servicing requests till the other end of the disk. At the other end, the direction is reversed and servicing continues.

Mark only one oval.

◯ LOOK

◯ SCAN

◯ C-SCAN

◯ C-LOOK

45.   37.Page stealing

Mark only one oval.

◯ is a sign of efficient system

◯ is taking page frames other working sets

◯ should be the tuning goal

◯ is taking larger disk spaces for pages paged out

46.   38.What is a shell script?

Mark only one oval.

( ) group of commands

( ) a file containing special symbols

( ) a file containing a series of commands

( ) group of functions

47.   39.For sharable resources, mutual exclusion

Mark only one oval.

( ) is required

( ) is not required

( ) maybe or may not be required

( ) none of the mentioned

48.   40.The _____ in page table contains the base address of each page in physical memory.

Mark only one oval.

( ) process

( ) page number

( ) page offset

( ) frame offset

49.   41)Whenever a process needs I/O to or from a disk it issues a _____

Mark only one oval.

⬭ system call to the CPU

⬭ system call to the operating system

⬭ a special procedure

⬭ all of the mentioned

50.   42Locality of reference implies that the page reference being made by a process

Mark only one oval.

⬭ will always be to the page used in the previous page reference.

⬭ is likely to be the one of the pages used in the last few page references.

⬭ will always be to one of the pages existing in memory.

⬭ will always lead to a page fault.

51.   43.To access the services of operating system, the interface is provided by the

Mark only one oval.

⬭ System calls

⬭ API

⬭ Library

⬭ Assembly instructions

52.　44.Which one of the following is a visual (mathematical) way to determine the deadlock occurrence?
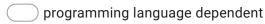
Mark only one oval.

◯ resource allocation graph

◯ starvation graph

◯ inversion graph

◯ none of the mentioned

53.　45.The first fit and best fit algorithms suffer from _____

Mark only one oval.

◯ internal fragmentation

◯ external fragmentation

◯ starvation

◯ all of the mentioned

54.　46.An assembler is

Mark only one oval.

◯ programming language dependent

◯ syntax dependent

◯ machine dependent

◯ data dependent

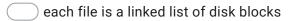55.   47.Time quantum is defined in

Mark only one oval.

◯ shortest job scheduling algorithm

◯ round robin scheduling algorithm

◯ priority scheduling algorithm

◯ multilevel queue scheduling algorithm

56.   48.The interval from the time of submission of a process to the time of completion is termed as

Mark only one oval.

◯ waiting time

◯ Turn around time

◯ response time

◯ throughput

57.   49.In indexed allocation _____

Mark only one oval.

◯ each file must occupy a set of contiguous blocks on the disk

◯ each file is a linked list of disk blocks

◯ all the pointers to scattered blocks are placed together in one location

◯ none of the mentioned

58.   50.Which one of the following is not an attack, but a search for vulnerabilities to attack?

Mark only one oval.

⬭ denial of service

⬭ port scanning

⬭ memory access violation

⬭ dumpster diving

59.   51.The degree of multiprogramming is

Mark only one oval.

⬭ the number of processes executed per unit time

⬭ the number of processes in the ready queue

⬭ the number of processes in the I/O queue

⬭ the number of processes in memory

60.   52._____ is a technique of temporarily removing inactive programs from main memory.

Mark only one oval.

⬭ Swapping

⬭ Spooling

⬭ Semaphore

⬭ Scheduler

61. 53.The processes that are residing in main memory and are ready and waiting to execute are kept on a list called _____

Mark only one oval.

◯ job queue

◯ ready queue

◯ execution queue

◯ process queue

62. 54.Which of the following are language processors?

Mark only one oval.

◯ Assembler

◯ Compiler

◯ Interpreter

◯ All of these

63. 55.What is compaction?

Mark only one oval.

◯ a technique for overcoming internal fragmentation

◯ a paging technique

◯ a technique for overcoming external fragmentation

◯ a technique for overcoming fatal error

64.   56.Creating a job queue is a function of
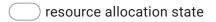
Mark only one oval.

◯ Spooler

◯ Interpreter

◯ Complier

◯ Drive

65.   57.Which command is used for making the scripts interactive?

Mark only one oval.

◯ lp

◯ Input

◯ Read

◯ Write

66.   58.A deadlock avoidance algorithm dynamically examines the _____ to ensure
       that a circular wait condition can never exist.

Mark only one oval.

◯ resource allocation state

◯ system storage state

◯ operating system

◯ resources

67. 59.Every address generated by the CPU is divided into two parts :

Mark only one oval.

○ frame bit & page number

○ page number & page offset

○ page offset & frame bit

○ frame offset & page offset

68. 60.Consider a disk queue with requests for I/O to blocks on cylinders. 98 183 37 122 14 124 65 67 Considering FCFS (first cum first served) scheduling, the total number of head movements is, if the disk head is initially at 53 is?

Mark only one oval.

○ 600

○ 620

○ 630

○ 640