

Pratidnya M. Hardas (11190840420066)

# PGDAC

✓ Answered:27 | UnAnswered:13 | ? For Review:16

1 ✓	15 ✓?	29 ✓
2 ✓	16 ?	30 ?
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11 ✓	25 ?	39
12 ✓?	26	40 ✓
13 ✓?	27 ✓	
14 ✓	28 ✓	

1. Deadlock prevention is a set of methods to:

- A. ensure that at least one of the necessary conditions cannot hold
- B. ensure that all of the necessary conditions do not hold
- C. decide if the requested resources for a process have to be given or not
- D. recover from a deadlock

A  B  C  D

2. If any user wants to access the services of operating system, which of the following interface options is correct?

- A. API
- B. assembly information
- C. library
- D. system calls

A  B  C  D

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13 ✓?	27 ✓	
14 ✓	28 ✓	

3. The command syntax to display the file 'sample.txt' one page at a time is:

- A. cat sample.txt > more
- B. cat sample.txt < more
- C. cat sample.txt | more
- D. man sample.txt | more

A  B  C  D

4. Which of the following conditions is required for deadlock to be possible?

- A. mutual exclusion
- B. process may hold allocated resources while awaiting assignment of other resources
- C. no resource can be forcibly removed from a process holding it
- D. All of the above

A  B  C  D

5. SQL injection

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13 ✓?	27 ✓	
14 ✓	28 ✓	

5. SV IPC objects are \_\_\_\_\_.

- A. objects on the file system
- B. destroyed automatically when the program completes execution
- C. persistent objects
- D. non persistent objects

A  B  C  D

6. Thrashing can be avoided if:

- A. The pages, belonging to the working set of the programs, are in main memory
- B. The speed of CPU is increased
- C. The speed of I/O processor are increased
- D. All of the above

A  B  C  D

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7. In the many to one model, multiple threads are unable to run in parallel on multiprocessor because:

- A. many user threads have access to just one kernel thread
- B. There is only one kernel thread
- C. There are many kernel threads
- D. only one thread can access the kernel at a time

A  B  C  D [Clear Answer](#) [Mark For Review](#)

8. Which of the following commands let us perform a set of instructions repeatedly?

- A. For
- B. While
- C. Until
- D. for, while, until

A  B  C  D [Clear Answer](#) [Mark For Review](#)

9. Under what circumstances would a user be better off using a timesharing system rather than a

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9. Under what circumstances would a user be better off using a timesharing system rather than a PC or single-user workstation?

- A. switch between jobs
- B. uniprogramming systems
- C. multiprogramming systems
- D. crontab

A  B  C  D [Clear Answer](#) [UnMark](#)

10. What must reside in the main memory under all situations in a resident - OS computer?

- A. Linker
- B. Loader
- C. Assembler
- D. Compiler

A  B  C  D [Clear Answer](#) [Mark For Review](#)

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A  B  C  D

11. Which of the following statements is true for the dirty page in a page table?

- A. Helps to maintain LRU information
- B. Allows only read on a page
- C. Helps to avoid unnecessary writes on paging device
- D. None of the above

A  B  C  D

12. Which of the following commands is used to delete the history from system?

- A. history -d
- B. history -s
- C. history -r
- D. history -c

A  B  C  D

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13. Which command is used to debug a shell script program?

- A. set d
- B. debug
- C. set
- D. set -x

A  B  C  D [Clear Answer](#) [UnMark](#)

14. Which of the following system calls will create the new process for any program?

- A. create ( )
- B. fork ( )
- C. open ( )
- D. thread ( )

A  B  C  D [Clear Answer](#) [Mark For Review](#)

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15. What does the following command display?

ps -aux

- A. Displays detailed information of processes currently running, of all users
- B. Displays detailed information of processes currently running, of current user
- C. Displays detailed information of processes and daemons currently running, of all users
- D. Displays detailed information of processes and daemons currently running, of current user

A  B  C  D [Clear Answer](#) [UnMark](#)

16. One problem with the global page replacement algorithm is:

- A. It is very expensive
- B. Many frames can be allocated to a process
- C. Only a few frames can be allocated to a process
- D. Fault rate – a process cannot control its own page

A  B  C  D [Clear Answer](#) [UnMark](#)

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17. If the below script named 'test' is invoked with 5 arguments, what is the output?

```
echo $#
shift
echo $#
```

- A. 5 4
- B. 5 5
- C. 4 4
- D. 5 and script error in line 3

A  B  C  D

18. Which command is used to display only hidden files?

- A. ls -d .\*
- B. ls -a
- C. ls .\*
- D. ls

A  B  C  D

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

- A. Zero
- B. One
- C. Two
- D. more than two

A  B  C  D [Clear Answer](#) [UnMark](#)

20. Which command is used to display all the files including hidden files in your current directory and subdirectories?

- A. ls -a
- B. ls -aR
- C. ls -R
- D. ls -l

A  B  C  D [Clear Answer](#) [Mark For Review](#)

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21. Which of the tar command options is used to list the files in a tape archive format?

- A. cvf
- B. tvf
- C. xvf
- D. lvf

A  B  C  D

22. The kill system call is used to:

- A. Send shutdown messages to all by superuser
- B. Send a signal to a process
- C. Kill processes
- D. Stop the processes

A  B  C  D

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23. Find / -name '\*' will:

- A. List all files and directories recursively starting from /
- B. List a file named \* in /
- C. List all files in / directory
- D. List all files and directories in / directory

A  B  C  D

24. RAM resident System V IPC mechanisms in Linux provides \_\_\_\_\_ method of communication.

- A. UNIX Socket
- B. FIFO
- C. Shared memory
- D. virtual memory

A  B  C  D

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25. Which of the following operators is used to break the case statement in shell script?

- A. ;
- B. ;;
- C. \*)
- D. break

A  B  C  D [Clear Answer] [UnMark]

26. How many links are created when we create a directory?

- A. 1
- B. 2
- C. 3
- D. 4

A  B  C  D [Clear Answer] [Mark For Review]

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27. A user issues the following command sequence:

\$ a.out &

\$ bash

\$ a.out &

If the user kills the bash process, then which of the following is true?

- A. The second a.out process is also terminated
- B. The second a.out process becomes a defunct process
- C. The first a.out process becomes a zombie process
- D. init process becomes parent of second a.out process

A  B  C  D

28. The maximum number of frames per process is defined by:

- A. the amount of available physical memory
- B. operating System
- C. instruction set architecture
- D. none of the mentioned

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29. Each \_\_\_\_\_ has its own index block.

- A. Partition
- B. Address
- C. File
- D. page

A  B  C  D [Clear Answer](#) [Mark For Review](#)

30. A filename is modified using the command "mv filea fileb", where fileb already exists. In this scenario, which of the following is true?

- A. fileb's inode number is changed to filea's inode number
- B. fileb's inode number does not change, remains the same as the old fileb
- C. The inode entry for fileb is not affected by this command
- D. None of the above

A  B  C  D [Clear Answer](#) [UnMark](#)

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A  B  C  D

31. The segment of code in which the process may change common variables, update tables and write into files is known as:

- A. Program
- B. critical section
- C. non – critical section
- D. synchronizing

A  B  C  D

32. The first process launched by the Linux kernel is:

- A. init process
- B. zombie process
- C. batch process
- D. boot process

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33. Which file checks the user login validation / authentication?

- A. /etc/shadow
- B. /etc/password
- C. /etc/profile
- D. ~/.profile

A  B  C  D [Clear Answer](#) [UnMark](#)

34. Unnamed pipes are used for communication between:

- A. two computers
- B. two related processes
- C. two unrelated processes
- D. two networks

A  B  C  D [Clear Answer](#) [Mark For Review](#)

35. A user executes the following command successfully:

```
$ chmod +v file1.txt
```

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A  B  C  D | Clear Answer | Mark For Review |

35. A user executes the following command successfully:

\$ chmod +x file1.txt

Which of the following is true about the output of this command?

- A. The command results in adding execute permission to the user who ran this command
- B. The command results in adding execute permission for the owner of the file
- C. The command results in an error since the file is not an executable file
- D. The command results in adding execute permission for all users

A  B  C  D | Clear Answer | Mark For Review |

36. Which one of the following is not a valid shell variable?

- A. \_san
- B. san\_2
- C. \_san\_2
- D. 2\_san

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37. Which of the following is not True?

- A. Processes may send each other signals
- B. Kernel may send signals internally
- C. A field is updated in the signal table when the signal is sent
- D. Each signal is maintained by a single bit

A  B  C  D [Clear Answer](#) [Mark For Review](#)

38. Which of the following is used for storing the number of positional parameters?

- A. \$n
- B. \$#
- C. \$\*
- D. \$?

A  B  C  D [Clear Answer](#) [Mark For Review](#)

39. A thread shares its resources (like data section, code section, open files, signals) with:

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A  B  C  D [Clear Answer](#) [Mark For Review](#)

39. A thread shares its resources (like data section, code section, open files, signals) with:

- A. other process similar to the one that the thread belongs to.
- B. other threads that belong to similar processes
- C. other threads that belong to the same process
- D. all of the above

A  B  C  D [Clear Answer](#) [Mark For Review](#)

40. Which of the following loader is executed when a system is first turned on or restarted?

- A. Boot loader
- B. Compile and Go loader
- C. Bootstrap loader
- D. Relating loader

A  B  C  D [Clear Answer](#) [Mark For Review](#)

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