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## CCEE mock test

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Module name : Concepts of Programming and Operating System - test 2

Your score : 25 / 40

Q.1. Identify the incorrect statement about compilation and execution of java programs

- javac helps in compiling the java program and creates the .class files
- java runs the programs using the bytecode in .class files
- java runs the programs using the source code in .java files
- javac is in the JDK package and java is in the JRE package

Right answer.

Q.2. What command is used to save the standard output in a file, as well as display it on the terminal?

- tee
- grep
- cat
- more

Right answer.

Q.3. Which command is used to change the I/O characteristics of the terminal?

- cty
- pty
- stty
- tty

Wrong answer.

Right answer : stty

Q.4. Which Linux command list the content of all sub directory?

- ls ~
- ls \* /
- ls /
- ls ../

Wrong answer.

Right answer : ls \* /

Q.5. Which component is responsible for optimizing byte-codes?

- JVM
- JDK
- JIT

JRE

Right answer.

Q.6. Which of these cannot be declared static?

class

object

variable

method

Right answer.

Q.7. Which of the following statements are incorrect?

static methods can call other static methods only

static methods must only access static data

static methods can not refer to this or super in any way

when object of class is declared, each object contains its own copy of static variables

Right answer.

Q.8. When invoking a method with an object argument, \_\_\_\_\_ is passed.

the contents of the object

a copy of the object

the reference of the object

the object is copied, then the reference of the copied object

Right answer.

Q.9. Choose the correct option.

Recursion is always better than iteration.

Recursion uses more memory compared to iteration.

Recursion uses less memory compared to iteration.

Iterative function is always better and simpler to write than recursion.

Right answer.

Q.10. The operating system and the other processes are protected from being modified by an already running process because \_\_\_\_\_

They are in different memory spaces

They are in different logical addresses

They have a protection algorithm

Every address generated by the CPU is being checked against the relocation and limit registers

Right answer.

Q.11. Where are placed the list of processes that are prepared to be executed and waiting?

- Job queue
- Ready queue
- Execution queue
- Process queue

Right answer.

Q.12. By shell into the parameter, \_\_ reads the first argument

- \$1
- \$3
- \$\$
- 1\$

Right answer.

Q.13. The program is interrupted by\_\_\_\_\_ command in appropriate way.

- kill
- SIGKILL
- trap
- INT

Wrong answer.

Right answer : trap

Q.14. Which system call can be used by a parent process to determine the termination of child process?

- wait()
- exit()
- fork()
- get()

Right answer.

Q.15. The entry of all the PCBs of the current processes is in \_\_\_\_\_

- Process Register
- Program Counter
- Process Table
- Process Unit

Right answer.

Q.16. If one thread opens a file with read privileges then:

- other threads in the another process can also read from that file
- other threads in the same process can also read from that file
- any other thread can not read from that file
- all of the mentioned

Wrong answer.

Right answer : other threads in the same process can also read from that file

Q.17. A computer system supports 32-bit virtual addresses as well as 32-bit physical addresses. Since the virtual address space is of the same size as the physical address space, the operating system designers decide to get rid of the virtual memory entirely. Which one of the following is true?

- Efficient implementation of multi-user support is no longer possible
- The processor cache organization can be made more efficient now
- Hardware support for memory management is no longer needed
- CPU scheduling can be made more efficient now

Wrong answer.

Right answer : Hardware support for memory management is no longer needed

Q.18. In Process Address Space, The variable names, constants, and instruction labels are the basic elements of \_\_\_\_\_.

- Symbolic addresses
- Relative addresses
- Physical addresses
- None of the above

Right answer.

Q.19. In which type of Fragmentation, Memory block assigned to process is bigger. Some portion of memory is left unused, as it cannot be used by another process.

- External fragmentation
- Internal fragmentation
- Both of the above
- None of the above

Wrong answer.

Right answer : Internal fragmentation

Q.20. A swapper manipulates \_\_\_\_\_ whereas the pager is concerned with individual \_\_\_\_\_ of a process.

- the entire process, parts
- all the pages of a process, segments
- the entire process, pages
- none of the mentioned

Right answer.

Q.21. Segment replacement algorithms are more complex than page replacement algorithms because \_\_\_\_\_

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

Right answer.

Q.22. Command used to check shared memory is

- ipcs
- ipcs -mS
- ipcs -s
- ipcs -q

Right answer.

Q.23. One process requires M resource to complete a job. What should be the minimum number of resources available for N processes so that at least one process can continue to execute without blocking/waiting?

- M \* N
- M \* N - 1
- M \* N + 1
- M

Wrong answer.

Right answer : M

Q.24. Which of the following are the major disadvantages of requesting all resources while preventing deadlock?

- i) delay process initiation
- ii) future resources requirements must be known
- iii) subject to cyclic restart

- i and ii only
- ii and iii only
- i and iii only
- i, ii and iii

Wrong answer.

Right answer : i and ii only

Q.25. Which of the following are the thread synchronization primitives supported by Solaris

- i) Mutual exclusion
- ii) Semaphores
- iii) Signals
- iv) Condition variables

- i, ii and iii only
- ii, iii and iv only
- i, ii and iv only
- All i, ii, iii and iv

Wrong answer.

Right answer : i, ii and iv only

Q.26. In which of the following Algorithm where the reference bit is used to determine whether a page has been recently referenced, and some page that has not been recently referenced is replaced?

- LRU Page replacement Algorithm
- FIFO page replacement Algorithm
- Optimal page replacement algorithm
- NRU Page replacement algorithm

Right answer.

Q.27. In which of the following Page replacement Policy, at every page fault the page replacement policy replaces the page that was loaded into memory earlier than any other page of the process?

- LRU Page replacement Algorithm
- FIFO page replacement Algorithm
- Optimal page replacement algorithm
- NRU Page replacement algorithm

Wrong answer.

Right answer : FIFO page replacement Algorithm

Q.28. In UNIX, the set of masked signals can be set or cleared using the \_\_\_\_\_ function.

- sigprocmask
- sigmask
- sigmaskproc
- sigproc

Right answer.

Q.29. In most cases, if a process is sent a signal while it is executing a system call :

- 
- the system call will continue execution and the signal will be ignored completely
- the system call is interrupted by the signal, and the signal handler comes in
- the signal has no effect until the system call completes
- none of the mentioned

Right answer.

Q.30. Both processes (the parent and the child) continue execution at the instruction after the fork(), with one difference: the return code for the fork() is \_\_\_\_\_ for the new (child) process, whereas the \_\_\_\_\_ process identifier of the child is returned to the parent.

- Negative integer, Zero
- Zero, Negative integer
- Nonzero integer, Zero

Zero, nonzero integer

Wrong answer.

Right answer : Zero, nonzero integer

Q.31. When the operating system has performed a \_\_\_ operation, it has two choices for selecting a process either admitting a newly created process or bring in a previously suspended process.

Swapping-in

Swapping-out

Blocked-in

Blocked-out

Wrong answer.

Right answer : Swapping-out

Q.32. There are the following statements that are given below, which of them are correct about Regular expressions in the Linux operating system?

- A. The regular expressions are strings that are used for pattern matching in some Linux commands.
- B. The regular expressions are also known as a regex.
- C. The regular expressions use some characters that each has a different meaning.
- D. Regular expressions can only be used in the Linux commands.

A and B

C and D

A, B, and C

A, B, C, and D

Wrong answer.

Right answer : A, B, and C

Q.33. Which of the following command is used to display only directories that exist in the current directory?

ls -l | grep "^d"

ls | grep "^d"

ls -l | grep "#d"

ls -l | grep "\*d"

Right answer.

Q.34. A deadlock avoidance algorithm dynamically examines the \_\_\_\_\_ to ensure that a circular wait condition can never exist.

resource allocation state

system storage state

operating system

resources

Right answer.

Q.35. Applying the LRU page replacement to the following reference string.

1 2 4 5 2 1 2 4

The main memory can accommodate 3 pages and it already has pages 1 and 2.

Page 1 came in before page 2.

How many page faults will occur?

- 2
- 3
- 4
- 5

Right answer.

Q.36. Thread synchronization is required because \_\_\_\_\_

- all threads of a process share the same address space
- all threads of a process share the same global variables
- all threads of a process can share the same files
- all of the mentioned

Wrong answer.

Right answer : all of the mentioned

Q.37. The following program results in the creation of?

```
main()
{
    if( fork() > 0 )
        sleep(100);
}
```

- an orphan process
- a zombie process
- a process that executes forever
- none of the mentioned

Right answer.

Q.38. In paged memory systems, if the page size is increased, then the internal fragmentation generally \_\_\_\_\_

- becomes less
- becomes more
- remains constant
- none of the mentioned

Right answer.

Q.39. When the entries in the segment tables of two different processes point to the same physical location \_\_\_\_\_

- the segments are invalid
- the processes get blocked
- segments are shared
- all of the mentioned

Wrong answer.

Right answer : segments are shared

Q.40. The hardware mechanism that allows a device to notify the CPU is called

\_\_\_\_\_

polling

interrupt

driver

controlling

Right answer.

Submit