Operating system MCQ

01. Swapping _____ be done when a process has pending I/O, or has to execute I/O operations only into operating system buffers.
a) must never
b) maybe
c) can
d) must

Answer: a

02. The main memory accommodates _____
a) cpu
b) user processes
c) operating system
d) all of the mentioned

Answer: c

03. The operating system is responsible for?
a) bad-block recovery
b) booting from disk
c) disk initialization
d) all of the mentioned

Answer: d

04. The operating system and the other processes are protected from being modified by an already running process because _____
a) every address generated by the CPU is being checked against the relocation and limit registers
b) they have a protection algorithm
c) they are in different memory spaces
d) they are in different logical addresses

Answer: a

05. Using transient code, _____ the size of the operating system during program execution.
a) maintains
b) changes
c) increases

d) decreases

Answer: b

06. 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.
a) memory
b) mapping
c) page
d) frame

Answer: d

07. To obtain better memory utilization, dynamic loading is used. With dynamic loading, a routine is not loaded until it is called. For implementing dynamic loading _____
a) special support from operating system is essential
b) special support from hardware is required
c) user programs can implement dynamic loading without any special support from hardware or operating system
d) special support from both hardware and operating system is essential

Answer: c

08. The _____ presents a uniform device-access interface to the I/O subsystem, much as system calls provide a standard interface between the application and the operating system.
a) Device drivers
b) I/O systems
c) Devices
d) Buses

Answer: a

09. In real time operating system _____
a) process scheduling can be done only once
b) all processes have the same priority
c) kernel is not required

d) a task must be serviced by its deadline period

Answer: d

10. Hard real time operating system has _____ jitter than a soft real time operating system.
a) equal
b) more
c) less
d) none of the mentioned

Answer: c

11. For real time operating systems, interrupt latency should be _____
a) zero
b) minimal
c) maximum
d) dependent on the scheduling

Answer: b

12. Which one of the following is a real time operating system?
a) Windows CE
b) RTLinux
c) VxWorks
d) All of the mentioned

Answer: d

13. The priority of a process will _____ if the scheduler assigns it a static priority.
a) depends on the operating system
b) change
c) remain unchanged
d) none of the mentioned

Answer: c

14. What are the characteristics of Host based IDS?
a) Logs are analysed to detect tails of intrusion
b) The host operating system logs in the audit information
c) Logs includes logins, file opens, and program executions
d) All of the mentioned

Answer: d

15. What are the characteristics of stack based IDS?
a) It is programmed to interpret a certain series of packets
b) It models the normal usage of the network as a noise characterization
c) They are integrated closely with the TCP/IP stack and watch packets
d) The host operating system logs in the audit information

Answer: c

16. If the sum of the working – set sizes increases, exceeding the total number of available frames _____
a) the operating system selects a process to suspend
b) the system crashes
c) then the process crashes
d) the memory overflows

Answer: a

17. The information about all files is kept in _____
a) operating system
b) separate directory structure
c) swap space
d) none of the mentioned

Answer: b

18. The operating system keeps a small table containing information about all open files called _____
a) file table
b) directory table
c) open-file table
d) system table

Answer: c

19. What will happen in the single level directory?
a) All files are contained in the same directory
b) All files are contained in different directories all at the same level
c) Depends on the operating system
d) None of the mentioned

Answer: a

20. The operating system _____ the links when traversing directory trees, to preserve the acyclic structure of the system.
a) deletes
b) considers
c) ignores
d) none of the mentioned

Answer: c