GRAND QUIZ

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JUNAID MALIK

AL-JUNAID INSTITUTE GROUP
CS604 GRAND QUIZ

1. The section of code before the critical section is called .

Entry section

2. An operating system is easily portable between varying hardware designs in_____structural approach.

Micro kernels

3. The_____approach include the ease of extending the OS.

Micro kernel

4. Which of the following information is not displayed with top command?

Number of threads in a process

5. Processes or threads often need access to shared data and shared resources.

Concurrent

6. In multi-threaded process thread () take two argument, they are used to take _____ and _____.

New thread ID, process name

8.

7. Cooperating processes never share any data, code, memory or state.

False

8. To terminate a process <ctrl-c>is pressed, which signal it actually pass to process for termination?

SIGINT

9. UNIX System V scheduling uses queues, which run algorithm.

Round Robin

10. First entries in Per Process File Descriptor Table are used as soon as the process is created.

3

11. Which part of the computer system helps in managing the file and memory management system?

Operating System

12. Batch programs are usually programs.

Non-interactive

13. Is a solution to critical section problem?

Lamppost's bakery algorithm

14. Which scheduling algorithm allocates the CPU first to the process that request the CPU first?

First-come, First-served scheduling

15. In Bakery algorithm, process are prioritized based on highest ticket number among competing processes.

False

16. The solution type where in critical section we use "entry section and "exit section" is called kind of .

Software Solution

17. How many modes are supported in operating system?

2

18. Which of the following is used to show the end of file in UNIX?

Ctrl + E

19. Scheduler selects the process from the job pool and put them in main memory.

Long term

20. A parent process calling _____system call will be suspended until children-processes terminate.

Time

21. _____ is used to request the OS by the process to take an I/O or initiating child process.

System call

22. Which is not basic computing hardware?

Compact Disc

23. The _____ defines an operating system as a bridge between computer user and hardware for a user's convenience.

24. **Top-down view**

25. You can use the mv file1 file2 command to move .

File1 to file2

26. are used by shell commands to pass data from one shell pipeline to another, without creating temporary files.

Pipes

27. system call is used to create a child process.

Fork

28. The kernel is a computer program that manages _____ requests from software.

Process

29. The problem with priority scheduling algorithm is .

Starvation

30. POSIX is a standard developed by .

ISO

31. _____command display the status of a process.

Ps

32. _____ algorithm is used for solving n-process critical section problem.

Bakery

33. Bounded Buffer is a buffer of_____size.

Fixed

34. The wait operation of the semaphore basically works on the basic_____system call.

Block ()

35. The priority of a process can be changed using_____ command.

Nice

36. In _____addressing, the recipient is not required to name the sender.

Asymmetric

37. The priorities of processes in the_____group remain fixed.

Kernel

38. The situation in which no context switching is required in multiprocessor systems is referred to as.

Spin lock

39. After fork() system call is made, parent and child process have their separate copy of .

File descriptors

40. In operating system, _____ command is used to copy files to same location or different location.

Both Copy and CP

41. When sender never block because it has an infinite length storage area, then it means it is holding a queue of capacity.

Unbounded

42. scheduling algorithm can be preemptive or non-preemptive.

Shortest Job First

43. In indirect communication between processes P and Q .

There is a mailbox to help communication between P and Q

44. A process is if it cannot affect or be affected by any other process executing in the system.

Independent

45. command is used to change the directory.

cd

46. The nice value helps in assigning to a process.

Priority

47. A major problem with priority scheduling is .

Starvation

48. You can have a thread within the same process by using the system call.

pthread_join()

49. In Unix/ Linux, by default the standard output file is attached to the .

Screen

50. Swapper is also termed as Short term scheduler.

True

51. State of a process transits from running to ready because of .

Interrupt

52. A solution to the critical section problem must satisfy the following requirements except

Race condition

53. The correct command for compiling C program named program.c in Linux environment is

gcc program.c –o FirstPrgram

54. The ready queue in RR scheduling algorithm is referred to as .

Time Quantum

55. A is an integer variable that, apart from initialization is accessible only through standard atomic operations.

Semaphore

56. The link between two processes P and Q to send and receive messages is called .

Communication link

57. TestAndSet instruction is executed .

None of the mentioned

58. As a result of <Ctrl-C>, a SIGINT signal is sent to a process, Signal number for SIGINT is .

2

59. integer shows the highest priority of a process in CPU scheduling.

Small

60. System calls provide the interface between a_____and the operating system.

Process

61. The kernel is_____ user threads.

Unaware of

62. The process creates two FIFOs, FIFO1 and FIFO2, and opens FIFO1 for reading and FIFO2 for writing.

Server

63. Which of the following statement is not true regarding the cooperating processes?

It may effect or be affected by any other process executing in the system

64. A Process 'A' that has finished working but its parent process has also finished its execution. In this state the process 'A' will be called as process.

Zombie

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65. In which of the following system multiple user are allowed to used the computer simultaneously?

Multi users

66. When a process has undivided access to a shared piece of code then no other process can execute this code, this state is called .

Mutual exclusion

67. scheduling algorithm is sometimes called shortest remaining time first scheduling algorithm.

Preemptive Shortest Job First

68. In multilevel queue-scheduling algorithm the highest priority is given to .

System processes

69. A parent process calling_____system call will be suspended until children process terminates.

Wait

70. The process of switching from one process to another is called latency.

False

71. Linux uses _____ directory to store system configuration files.

/etc

72. _____ processes or threads often need access to shared data and shared resources.

Concurrent

73. If size of a process is 376052 bytes and its smallest physical memory address is 242785. Its address space cannot exceed beyond _____

- 376053
- 376051 NOT SURE
- 618836
- 618838

74. If your processor does not have two slots empty in Per Process File Descriptor Table, then your_____ system call will fail.

PIPE

75. How many modes are supported in operating system?

2

76. The creating process is called a _____ process while the new processes are called the _____ of that process

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Parent , Children

77. A process 'A' that has finished working but its parent has also finished its execution. In this state the process 'A' will be called as _____ process.

ZOMBIE

78. _____ command is used to change the directory.

CD

79. State of a process transits from running to ready because of .

Interrupt

80. _____ is not a system call in Linux.

Mkfifo

81. For reading input, which of the following system call is used?

Read

82. Which of the following conditions must be satisfied to solve the critical section problem?
    - Mutual exclusion
    - Progress
    - Bounded waiting
    - All of the mentioned

83. The region in the memory that a process is allowed to access is known as process .

Address Space

_____ scheduling algorithm is sometimes called shortest remaining time first scheduling algorithm.

Preemptive Shortest Job First

84. A signal is an event generated to get attention of

Process

85. The _____ approach include the ease of extending the OS.

Micro Kernel

86. OS helps manages the following except

Bus speed of the System

87. The file descriptor for Standard input (stdin) is _____

0

88. Which is not a parameter of pthread_creaate().

Return Status

89. In _____ inter process communication, a sender mention the name of the recipient.

DIRECT

90. Multi-threading model provides full concurrency.

One-to-One

91. _____ is used in real time operating systems.
NON-Preemptive Scheduling
92. Shortest remaining time first scheduling is referred to as shortest job first scheduling algorithm.
False
93. UNIX System V scheduling uses queues, which run _____ algorithm.
Round Robin
94. For undivided and uninterrupted testing and setting of semaphore, uni-processor systems tend to_____
Disable Interrupt
95. The section of cose before the critical section is called
Entry Section
96. For reading input, which of the following system call is used?
Read
97.In Swapping technique of Memory Management, the total amount transfer time is directly proportional to the _____.

98.The address generated by the CPU, after any indexing or other addressing-mode arithmetic, is called a _____ address, and the address it gets translated to by the MMU is called a _____ address.

Virtual, physical

99. Deadlock can be deal with _____ ways.

3

100. The condition in which a set {P0, P1... Pn} of waiting processes must exist such that P0 is waiting for a resource that is held by P1, P1 is waiting for a resource that is held by P2, and so on, Pn-1 is waiting for a resource held by Pn, and Pn is waiting for a resource held by P0. This condition is known as _____.

101. The integer value of _____ semaphores can not be greater than 1.

Binary

102. DOS is a single user operating system.

True

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103. Round Robin algorithm is similar to _____ scheduling but preemption is added to switch between processes.

First Come First Serve

104. _____ algorithm is used in Deadlock avoidance.

Banker's

105. What do we name to an address that is generated by the CPU?

Logical address

106. The major criterion in the selection of a particular algorithm is that we want to _____.

107. If validation bit is 0, it indicates a/an _____ state of segment.

Illegal

108. Semaphores are used to synchronize _____ processes.

Concurrent

109. The collection of processes that is waiting on the disk to be brought into the memory for execution forms the _____.

Input queue

110. When process opens its first file explicitly it will get descriptor number _____.

1

111. If a process continues to fault, replacing pages, for which it then faults and brings back in right away. This high paging activity is called _____.

thrashing

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112. Following is NOT true about Virtual memory.

Virtual memory makes the processes to stuck when the collective size of all the processes becomes greater than the size of main memory.

113. A dashed line is used to represent a _____ in Resource Allocation Graph.

114. Following is not the classical problem of synchronization.

115. Which part of the computer system helps in managing the file and memory management system?

Operating System

116. The _____ is a single program that produces an object file.

Compiler

117. _____ keep in memory only those instructions and data that are needed at any given time.

118. Physical memory is broken down into fixed-sized blocks, called _____ and Logical memory is divided into blocks of the same size, called _____.

Frames, pages

119. Shared libraries and kernel modules are stored in _____ directory.

/lib

120. To eliminate external fragmentation in segmentation the scheme used is _____.

121. The nice value helps in assigning _____ to a process.

122. You can use the mv file1 file2 command to move _____.

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file1 to file2

123. What do we name to an address that is loaded into the memory-address register of the memory?

124. A solution to the critical section problem must satisfy the following requirements except

Race Condition

125. _____ is a piece of code in a cooperating process in which the process may updates shared data (variable, file, database, etc.)

Critical Section

126. I/O instructions are Privileged instruction.

127. Main memory is _____ memory.

Volatile

128. Which command display permissions and some other attributes for prog1.c in your current directory?

Page offset

129. Deadlock detection and recovery technique is exactly similar to deadlock avoidance technique to handle deadlock in the system.

130. _____ indicates size of the page table.

Page offset

131. Banker's algorithm is used for _____.

132. Address Binding will be at _____ in Multiprogramming with Fixed Tasks (MFT)

133. A process is said to be in critical section if it executes code that manipulates shared data.

True

134. Linux OS can support multiple users at a time

135. The set of all physical addresses corresponding to the logical addresses is a _____ of the process.

Physical address space

136. When a _____link is created, a directory entry for the existing file is created

Hard

137. The size of pages and frames are same in logical memory and physical memory respectively.

138. If a system is not in a safe state, there can be NO deadlocks.

False

139. _____ consists of a large array of words or bytes, each with its own address.

Memory

140. _____ command is used to change the directory.

cd

141. The segment table maps the _____ to physical addresses.

142. If a system is not in a safe state, there can be no deadlocks.

False

143. The logical address of Intel 80386 is _____.

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144. The main memory is usually divided into partitions, one for _____ and other for _____.

145. When the address used in a program gets converted to an actual physical RAM address, it is called _____.

146. Banker's algorithm is used for _____.

Deadlock avoidance

147. Deadlock _____ provides a set of methods for ensuring that at least one of the necessary conditions cannot hold.

Prevention

148. A modification of free-list approach in free space management is to store the addresses of n free blocks in the first free block, known as _____.

grouping

149. The process id returned to the child process after successful fork system call execution is _____.

0

150. A parent process calling _____ system call will be suspended until children process terminates.

exit

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151.Optimal Page Replacement Algorithm provides a benchmark in assessing other page replacement algorithms.

152.An acyclic graph does not allow directories to have shared subdirectories and files.

False