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CBSE NET JUNE 2005

OPERATING SYSTEM QUESTION

Moving Process from main memory to disk is called :

(A) Catching
(B) Termination
(C) Swapping
(D) Interruption

Ans :- C

Explanation:-

Catching is the process of storing data into temporary storage area known as cache. For example whatever we surf on internet, that data is stored in cache of the browser.

Termination is the terms used in the case of process ending such that on call of exit().

Swapping is moving process from main memory to disk and vice versa.Operating system copies maximum data as possible into main memory and leaves the remaining on the disk storage. Swapping is one of the memory management techniques used by the operating system. Since the size of the RAM is limited and finite, all the processes or programs to be executed cannot be made to fit in it. So the disk is also treated as an extension of the memory and is referred to as virtual memory. Moving a process from main memory to disk is called swapping.
Interruption is a signal to the processor invoked by hardware or software indicating an event that needs immediate attention on it.

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57. Multiple Processor Scheduling
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59. Compare Paging and Segmentation?
60. What is Process Scheduling, CPU Scheduling, Disk Scheduling? Explain Short, Medium and Long term Scheduler?
61. Explain concept of a process with its components ?
62. Explain the following in brief Contiguous and Linked list allocation for implementing file system?
63. Explain various Disk scheduling algorithms with Illustrations ?
64. Define process and thread. What is PCB ? Explain its various entries with their usefulness ?
65. Discuss advantages and disadvantages of the Buffer cache ?
66. Explain different types of OS with examples of each ?
67. What is an Operating System? Write down its desirable characteristics ?
68. Define a deadlock ? Write down the conditions responsible for deadlock? How can we recover from deadlock ?
69. What are the various services provided by Operating system ?
70. What do you mean by PCB? Where is it used? What are its contents? Explain.
71. What is Binary and Counting semaphores ?
72. What is File? What are the different File attribute and operations?
73. What are System call? Explain briefly about various types of system call provided by an Operating System?
74. Describe necessary conditions for deadlocks situation to arise.
75. What are points to be consider in file system design? Explain linked list allocation in detail?
76. Write a Semaphore solution for dining Philosopher’s problem?

77. Consider the following page reference string:1,2,3,4,5,3,4,1,2,7,8,7,8,9,7,8,9,5,4,5. How many page faults would occur for the following replacement algorithm, assuming four frames:a) FIFOb) LRU
78. Explain CPU schedulers in operating system?
79. Write the different state of a process with the help of Process state deagram?
80. What is Mutex in operating system?
81. Explain Network operating system?
82. What do you mean by paging in operating system ?