1. Memory Management: It keeps tracks of primary memory i.e what part of it are in use by whom, what part are not in use etc. Allocates the memory when the process or program request it.
2. Processor Management: Allocate the processor(CPU) to a process. Deallocate processor when processor is no longer required.
3. Device Management Keep tracks of all devices. This is also called I/O controller. Decides which process gets the device when and for how much time.
4. File Management: Allocates the resources. De-allocates the resource. Decides who gets the resources.
5. Security: By means of passwords & similar other techniques, preventing unauthorized access to programs & data.
6. Error-detecting aids: Production of dumps, traces, error messages and other debugging and error-detecting methods.

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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?
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80. What is Mutex in operating system?
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