

**CBSE NET JUNE 2015 Paper II**

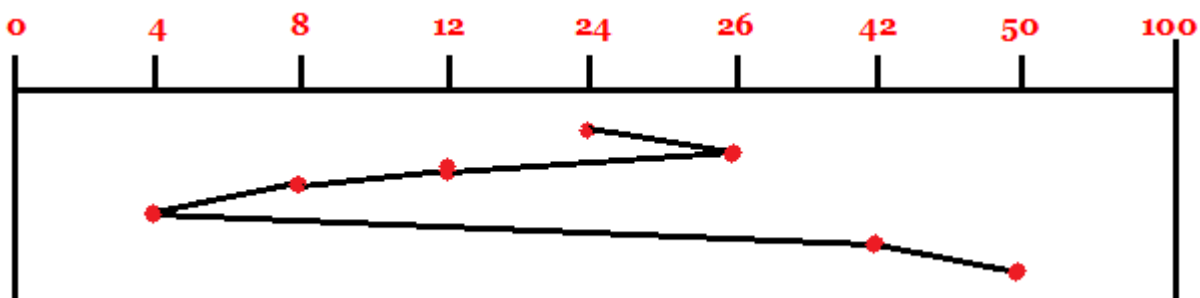
**Q.** A disk drive has 100 cylinders, numbered 0 to 99. Disk request come to the disk driver for cylinders 12,26,24,4,42,8,50 in that order. The driver is currently serving a request at cylinder 24. A seek takes 6msec per cylinder moved. How much seek time is needed for the shortest seek time first (sstf) algorithm?

- A) 0.984 sec
- B) 0.396 sec
- C) 0.738 sec
- D) 0.42 sec

**Ans:** (D)

**Explanation:**

SSTF, Shortest time first algorithm



Total cylinder head movements =  $02 + 14 + 04 + 04 + 38 + 08 = 70$ .

Seek time needed =  $70 \times 6 = 420 = 0.42$  sec.

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93. Multiple Processor Scheduling
94. What do you mean by Virtual Memory? Write down its advantages?
95. Compare Paging and Segmentation?
96. What is Process Scheduling, CPU Scheduling, Disk Scheduling? Explain Short, Medium and Long term Scheduler?
97. Explain concept of a process with its components ?
98. Explain the following in brief Contiguous and Linked list allocation for implementing file system?
99. Explain various Disk scheduling algorithms with Illustrations ?
100. Define process and thread. What is PCB ? Explain its various entries with their usefulness ?
101. Discuss advantages and disadvantages of the Buffer cache ?
102. Explain different types of OS with examples of each ?
103. What is an Operating System? Write down its desirable characteristics ?
104. Define a deadlock ? Write down the conditions responsible for deadlock? How can we recover from deadlock ?
105. What are the various services provided by Operating system ?
106. What do you mean by PCB? Where is it used? What are its contents? Explain.
107. What is Binary and Counting semaphores ?
108. What is File? What are the different File attribute and operations?
109. What are System call? Explain briefly about various types of system call provided by

an Operating System?

110. Describe necessary conditions for deadlocks situation to arise.
111. What are points to be consider in file system design? Explain linked list allocation in detail?
112. Write a Semaphore solution for dining Philosopher's problem?
113. 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) FIFO b) LRU
114. Explain CPU schedulers in operating system?
115. Write the different state of a process with the help of Process state deagram?
116. What is Mutex in operating system?
117. Explain Network operating system?
118. What do you mean by paging in operating system ?