Prob. Suppose that the given ahead processes arrive for execution at time indicated-

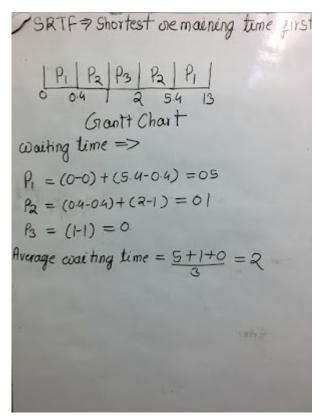
Process	Arrival Time	Burst Time
P1	0.0	8
P2	0.4	4
Р3	1.0	1

Calculate average turnaround time, average waiting time and throughput-

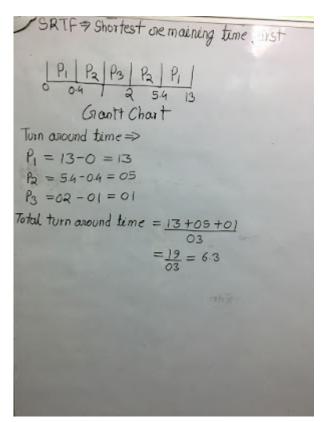
- (i) FCFS
- (ii) SRTF
- (iii) Non-Preemptive SJF

Ans.

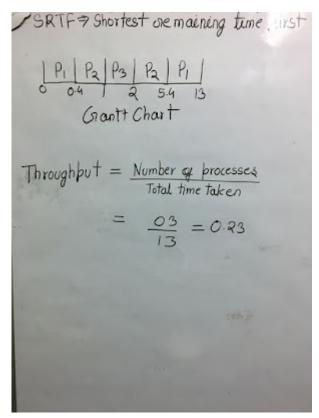
SRTF: Shortest remaining time first,



SRTF: Average waiting time



SRTF: Total turn around time



SRTF: Throughput

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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?