

Q1 consider a system with 3 pool three and the topology for the three strings
 1, 2, 3, 0, 3, 0, 4, 2, 3 for the optimal path.

7	7	7	2	2	2	2	2	2	2
	0	0	0	0	0	0	4	4	4
		1	1	1	3	3	3	3	3
7	0	1	2	0	3	0	4	2	3
			Ⓟ	Ⓟ			Ⓟ		

Q2 compare segmentation with paging as memory management techniques. Evaluate which scheme provides better memory utilization and program flexibility in modern operating system, and justify your answer with suitable example.

Q3 paging \Rightarrow the divided memory in small fixed size blocks called page.

segmentation \Rightarrow the program is divided into various size blocks called segmentation.

1) \Rightarrow Better memory utilization \Rightarrow

\Rightarrow Segmentation suffers from external fragmentation as segments have located into various memory blocks and hence into small sub-blocks and thus as so small \Rightarrow paging entire system might not be able to be used and page. It only allowing minor increase in memory utilization.

2) Better page flexibility

→ system is free to replace of virtual memory that can be to run program that are much long than the physical memory

→

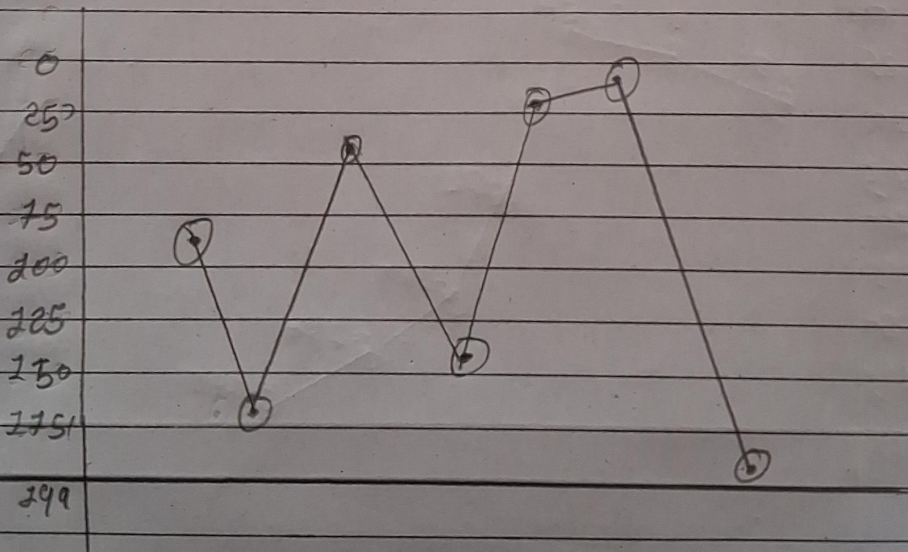
Q3

A disk queue contains requests for one Redundant tracks

82, 120, 113, 110, 24, ~~20~~ 16, 190

The disk head is currently at position 50 and move for high number tracks FCFS, SSTF, SCAN

1) FCFS



FCFS

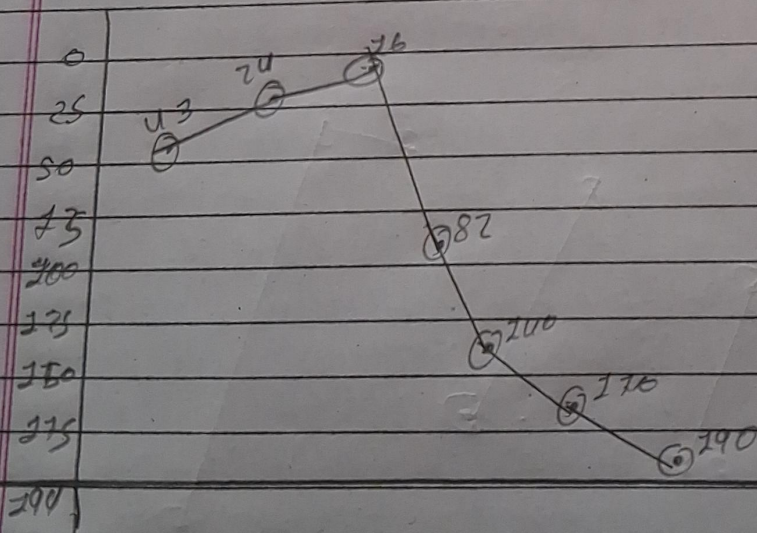
no 26

next given numbers are

UCCS	MCCS
82	32
270	88
113	424
2110	97
24	126
16	8
240	176

$$Guz = 9.1.71$$

2) 5574



Net Through

number of

cc

thru

43

7

24

14

26

8

82

66

240

58

170

30

290

20

29.71

3) SCAN

