

THE HONG KONG POLYTECHNIC UNIVERSITY
HONG KONG COMMUNITY COLLEGE

Subject Title : Computer System Principles

Subject Code : CCN3133

Session : Semester Two, 2014/15

Numerical Answers

Question 4

(c)(i) 2600

(c)(ii) 3700

Question 6

(a)

Step	FIFO		SSTF		SCAN		C-SCAN	
	Next track accessed	Number of tracks traversed	Next track accessed	Number of tracks traversed	Next track accessed	Number of tracks traversed	Next track accessed	Number of tracks traversed
1	90	10	90	10	90	10	90	10
2	180	90	120	30	45	45	45	45
3	175	5	140	20	30	15	30	15
4	30	145	170	30	120	90	190	160
5	120	90	175	5	140	20	180	10
6	45	75	180	5	170	30	175	5
7	170	125	190	10	175	5	170	5
8	140	30	45	145	180	5	140	30
9	190	50	30	15	190	10	120	20
	Average	68.9	Average	30.0	Average	25.6	Average	33.3