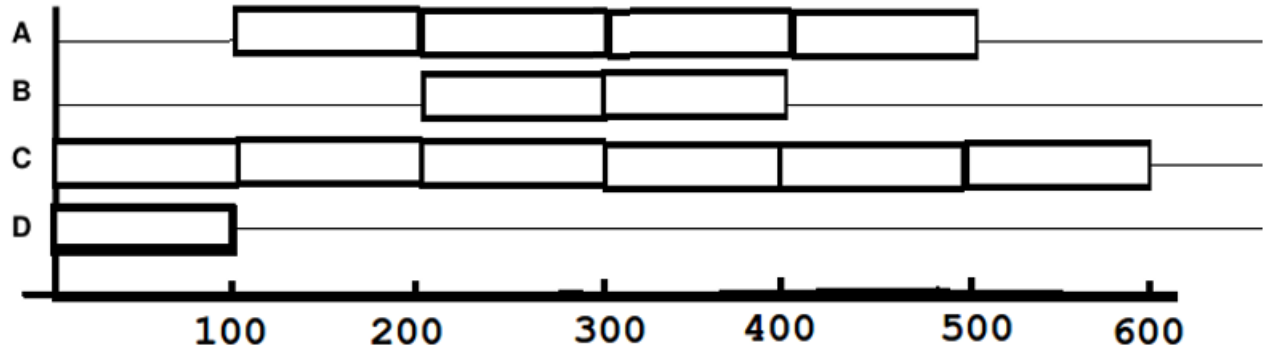
VauLSMorg
08 SchSoc - Schedulling & Sockets
Aneka Soal Ujian Sistem Operasi
Rahmat M. Samik-Ibrahim et.al.

1. **2016-1**

	Kombinasi Multiprogram (%)														
	A	B	C	D	A+B	A+C	A+D	B+C	B+D	C+D	A+B+C	A+B+D	A+C+D	B+C+D	A+B+C+D
Utilitas CPU per proses A	10	-	-	-	9.3	9.3	9.2	-	-	-	8.3	8.1	7.8	-	7
Utilitas CPU per proses B	-	20	-	-	19	-	-	18	17	-	17	16	-	15	14
Utilitas CPU per proses C	-	-	30	-	-	28	-	26	-	25	25	-	23	22	21
Utilitas CPU per proses D	-	-	-	40	-	-	37	-	35	33	-	32	31	30	28

Diagram berikut ini dibentuk menggunakan data tabel di atas.



(a) Berapa waktu CPU (CPU TIME) dari proses A?

(b) Berapa waktu CPU (CPU TIME) dari proses B?

(c) Berapa waktu CPU (CPU TIME) dari proses C?

(d) Berapa waktu CPU (CPU TIME) dari proses D?

(e) Berapa waktu total (TOTAL TIME) dari proses A?

(f) Circle or cross T if true, and F if false:
[**T** / **F**] Priority scheduling prevents starvation.

2. **2016-2**

There exists four (4) identical processes, with this following CPU utilization table:

	Multiprogramming Combination (%)			
	A	**A + A**	**A + A + A**	**A + A + A + A**
CPU utilization per proses A	10	9.5	9	8.6

The CPU time of each processes is 43 seconds

Print the output when the system runs:

(a) How long will be the total time to run concurrently all (4) processes together?!

(b) How long will be the total time to run all (4) processes one by one?!