



PART 1. ATOM					
ข้อ	คำตอบ	ข้อ	คำตอบ	ข้อ	คำตอบ
1	4	16	1	31	13.4
2	$1.7 \times 10^7$	17	2	32	635
3	1,200	18	5	33	$2.42 \times 10^{18}$ Hz
4	4	19	48.7 m	34	2
5	4	20	6.67	35	3
6	4	21	250	36	3
7	3	22	3	37	1
8	3	23	1	38	1
9	3	24	4	39	1
10	3	25	2	40	2
11	16	26	2	41	3
12	3	27	3	42	$\frac{1}{\sqrt{2}}$
13	3	28	1.65		
14	2	29	1.5		
15	1	30	2		
PART 2. ATOM					
1	5	15	3	29	2
2	2	16	4	30	4
3	1	17	3	31	-18
4	3	18	1	32	1
5	$n. 1.69 \times 10^{-4}$	19	3	33	1
	ว. ใต้	20	1	34	3
6	$1.8 \times 10^{-19}$	21	250 THz	35	1
7	12.8	22	2	36	1
8	1	23	3	37	4
9	1	24	4	38	2
10	3	25	$n. 3.96 \times 10^{19}$ J	39	3
11	3		ว. $0.5 \times 10^{15}$ ตัว	40	1
12	3	26	1	41	$1.2 \times 10^{-12}$ nm
13	0.2	27	1		
14	4	28	$2 \times 10^{20}$		
PART 3. ATOM					
1	$5.9 \times 10^6$ m/s	18	2	31	2.85
2	2.07 m	19	$n. 1.08 \times 10^{31}$	32	4
3	1		ว. $5.4 \times 10^{21}$	33	1,237.5 V, $2.09 \times 10^7$
4	2,000	20	3		
5	$2.8 \times 10^{-14}$ m	21	5 °C	34	$n. 1.71$ eV ว. 2.25 eV
6	2	22	3		$n. 0.54$ eV
7	4	23	$n. 9.7 \times 10^{14}$ Hz	35	1
8	256		ว. 10.3 eV ,		
9	2		$1.65 \times 10^{-18}$ J	36	1
10	4		$n. 1.9 \times 10^6$ m/s	37	33
11	4	24	1	38	1
12	1	25	1	39	$3.3 \times 10^{-24}$
13	3	26	3	40	4
14	2	27	1	41	$n. 3.3 \times 10^{-24}$ ว. $5.98 \times 10^{-18}$ J
15	1	28	7		$9.9 \times 10^{-16}$ J
16	2	29	2		
17	3	30	3	42	8.25.75

PART 1. NUCLEAR					
ข้อ	คำตอบ	ข้อ	คำตอบ	ข้อ	คำตอบ
1	4	18	5	35	5
2	2	19	3,5	36	1
3	3	20	50 บาท	37	1
4	4	21	4	38	
5	4	22	2 ๒๒.	39	4
6	3	23	52 g.	40	4
7	1	24	3	41	4
8	2	25	2	42	4
9	3	26	1	43	3
10	1	27	2	44	4
11	2	28	2	45	1
12	1	29	4	46	4
13	1	30	1	47	1
14	2	31	2	48	3
15	1	32	2	49	2
16	4	33	4	50	3
17	2	34	5		
PART 2. NUCLEAR					
1	4	18	1	35	4
2	2	19	1	36	1
3	4	20	100	37	1
4	1	21	2	38	4
5	3,4	22	1	39	2
6	4	23	2 ๒๒.	40	5
7	2	24	0.5	41	4
8	1	25	125.52	42	3
9	3	26	3	43	4
10	2	27	4	44	2
11	2	28	1	45	1
12	4	29	5	46	3
13	4	30	3	47	2
14	3	31	1	48	1
15	2	32	ไม่มีคำตอบ	49	2
16	5	33	3	50	1
17	3	34	3		
PART 3. NUCLEAR					
1	3	17	1	34	3
2	$\frac{222}{86} Rn$	18	8.652 MeV	35	2
		19	5	36	0.07
3	1	20	4	37	4
4	0.75	21	4	38	3
5	3	22	3	39	3
6	4	23	4	40	3
7	3	24	5	41	2.82
8	1	25	4	42	3
9	4	26	4	43	2
10	4	27	3	44	26.7
11	4	28	4	45	3
12	1	29	1	46	2
13	3	30	5	47	4
14	4	31	5	48	1
15	4	32	3	49	2
16	3	33	5	50	4